

# Environmental Assessment for the

# National Capital Region Readiness Complex





## Prepared for:

DEPARTMENT OF THE AIR FORCE
Andrews Air Force Base
Air Force Center for Environmental Excellence

June 2005

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## FINDING OF NO SIGNIFICANT IMPACT (FONSI)

## ENVIRONMENTAL ASSESSMENT OF THE NATIONAL CAPITAL REGION READINESS COMPLEX AT ANDREWS AIR FORCE BASE

### INTRODUCTION

The U.S. Air Force Air Mobility Command has identified a need to construct and operate a National Capital Region (NCR) Readiness Complex at Andrews Air Force Base (AFB) in Prince George's County, Maryland. The proposed action would allow for the secure and discreet exchange of classified information at a centralized Washington, DC location.

The proposed action would involve the construction and operation of the NCR Readiness Complex, which includes a Mission Planning Center (conference facility), lodging, and a collocated Club (dining facility). In addition to Alternative 1, and in accordance with the National Environmental Policy Act, the attached Environmental Assessment (EA) considered two other alternatives: construction of solely the Mission Planning Center (Alternative 2) and the No Action Alternative. The decision in this FONSI is based upon information contained in the EA, which is hereby incorporated by reference.

### PURPOSE OF AND NEED FOR THE PROPOSED ACTION

The proposed action is needed to comply with the information security requirements of Department of Defense (DoD) Regulation 5200.1-R (January 1997), as amended by Assistant Secretary of Defense (Command, Control, Communications, and Intelligence) letter on 26 October 2001. This amended regulation provides that "classified meetings and conferences shall be held only at U.S. Government activities or cleared DoD contractor facilities with appropriate facility security clearances." The proposed action would meet that requirement by providing a centralized Readiness Complex where senior DoD and U.S. and foreign government leadership to securely and discreetly exchange classified information within the National Capital Region. Andrews AFB is an appropriate location due to the fact that it is a frequent and convenient embarkation and disembarkation point for U.S. leaders, foreign heads of state, and other military and diplomatic officials and dignitaries. In addition, Andrews AFB is located within 20 miles of the White House and the headquarters of many of the agencies involved in national security.

### **DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES**

Alternative 1 would involve the demolition of approximately 130,000 square feet of existing buildings (former Visitor's Quarters) and construction of the NCR Readiness Complex at a site fronting on Menoher Drive and California Road. Elements of the proposed NCR Readiness Complex would include the construction and operation of a:

• Mission Planning Center - This secure conference facility (approximately 34,500 square feet) would accommodate a 256-person auditorium, and conference rooms of various sizes, including a Secure Compartmented Information Facility (SCIF).

- Lodging and Collocated Club (Dining Facility) The proposed lodging facility would contain 500 rooms and 8 business suites. The collocated club/dining facility would accommodate civilians, officers, and enlisted personnel in a building approximately 25,500 square feet in size. The club would also include a 600-person multifunctional banquet room
- Parking 500 parking spaces would be provided.

Alternative 2 would only involve the construction of the Mission Planning Center component of the Readiness Complex at the Visitors Quarter's site. The lodging facility and collocated club would not be constructed, nor would California Road be closed. However, the same 17 buildings would be demolished.

#### NO ACTION ALTERNATIVE

The No Action Alternative would be defined as not constructing the NCR Readiness Complex at Andrews AFB. As a result, the need for a centrally-located complex that provides for discreet attendance at meetings involving the exchange of classified information within the National Capital Region would not be satisfied.

#### **ENVIRONMENTAL IMPACTS OF THE PROPOSED ACTION**

The analysis performed addressed the potential effects on land use, vehicular transportation, hazardous materials and waste management, air quality, noise, socioeconomics, topography and geology, water resources, biological resources, and cultural resources. The analysis indicates that implementing the proposed action as described for Alternative 1 (the Preferred Alternative) would have no significant direct, indirect or cumulative impacts on the quality of the human or natural environment.

### FINDING OF NO SIGNIFICANT IMPACT

After review of the EA prepared in accordance with the requirements of NEPA, the Council on Environmental Quality regulations, and the Environmental Impact Analysis Process, 32 Code of Federal Regulations Part 989, as amended, I have determined that Alternative 1, which involves the construction and operation of a NCR Readiness Complex, would not have a significant impact on the quality of the human or natural environment and, therefore, the preparation of an Environmental Impact Statement is not required. This decision has been made after taking into account all submitted information, and considering a full range of practical alternatives that would meet project requirements and are within the legal authority of the USAF.

JOHN J. TORKES, Colonel, USAF Vice Commander, 89th Airlift Wing Date

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## **List of Acronyms and Abbreviations**

2								
2	A ava my ma/A b b vay viation	Definition						
3	Acronym/Abbreviation	<u>Definition</u>						
4	ACLID	Advisory Council for Historia Dragonyation						
5	ACHP	Advisory Council for Historic Preservation						
6	ACM	Annotated Code of Maryland						
7	AFB	Air Force Base						
8	AFI	Air Force Instruction						
9	AMC	Air Mobility Command						
10	amsl	above mean sea level						
11	ANG	Air National Guard						
12	AOC	areas of concern						
13	ARW	Air Refueling Wing						
14	BCP	Base Comprehensive Plan						
15	BMP	Best Management Practice						
16	C&D	construction and demolition						
17	CAA	Clean Air Act						
18	CAFRA	Comprehensive Annual Financial Report						
19	CAP	Civil Air Patrol						
20	CEQ	Council on Environmental Quality						
21	CERCLA	Comprehensive Environmental Response, Compensation, and						
22	OLIKOLIK	Liability Act						
23	CFR	Code of Federal Regulations						
24	CMSA	Consolidated Metropolitan Statistical Area						
2 <del>4</del> 25	CO	carbon monoxide						
26	COMAR	Code of Maryland Regulations						
27	dB	decibel  Pictorial of Calcumbia Air National County						
28	DCANG	District of Columbia Air National Guard						
29	DNL	Day-night average sound level						
30	DoD	Department of Defense						
31	EA	Environmental Assessment						
32	EIS	environmental impact statement						
33	EPA	U.S. Environmental Protection Agency						
34	ERP	Environmental Restoration Program						
35	FEMA	Federal Emergency Management Agency						
36	FONSI	Finding of No Significant Impact						
37	FR	Federal Register						
38	FWS	Fish and Wildlife Service						
39	FY	fiscal year						
40	HQ	headquarters						
41	ICRMP	Integrated Cultural Resources Management Plan						
42	LBP	Lead-based paint						
43	LOS	Level of Service						
44	MDE	Maryland Department of Environment						
45	MFH	Military Family Housing						
46	MGD	million gallons per day						
<del>4</del> 0 47	MSA	Metropolitan Statistical Area						
48	NAAQS	National Ambient Air Quality Standards						
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49	NAF	Naval Air Facility						

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1 2	NEPA <u>Acronym/Abbreviation</u>	National Environmental Policy Act  Definition
3	Act on ym/Abbi c viation	Definition
4	NFIP	National Flood Insurance Program
5	NHPA	National Historic Preservation Act
6	NO <sub>2</sub>	nitrogen dioxide
7	NO <sub>x</sub>	nitrogen oxide
8	NOÂA	National Oceanic and Atmospheric Administration
9	NOI	Notice of Intent
10	NPC	National Contingency Plan
11	NPL	National Priority List
12	NPDES	National Pollutant Discharge Elimination System
13	NRHP	National Register of Historic Places
14	$O_3$	ozone
15	PAT	Priority Air Transport
16	Pb	lead
17	PCB	Polychlorinated Biphenyls
18	PM	particulate matter
19	RONA	Record of Non-Applicability
20	RRRP	Resource, Recovery, and Recycling Program
21	SCIF	Secure Compartmented Information Facility
22	SHPO	State Historic Preservation Officer
23	SIP	State Implementation Plan
24	$SO_2$	sulfur dioxide
25	SPCC	Spill Prevention, Control, and Countermeasures
26	SVOC	semi-volatile organic compound
27	SWMU	Solid Waste Management Unit
28	TLF	Temporary Lodging Facility
29	TPY	Tons per year
30	USAF	United States Air Force
31	USAFRC	United States Air Force Reserve Command
32	USC	United States Code
33 34	USGS	United States Geological Survey
34 35	VOC	volatile organic compound
	vpd	vehicles per day
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## 1 Purpose and Need for Action

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#### 1.1 Introduction

Andrews Air Force Base (AFB), an installation under the Air Mobility Command (AMC), proposes to construct a National Capital Region Readiness Complex at the Base. The action is needed to provide secure conference facilities within a U.S. Government activity convenient to Washington, D.C. and individuals flying into and out of Washington, D.C. The facility would meet the information security requirements of Department of Defense Regulation 5200.1-R (January 1997), as amended. This Environmental Assessment (EA) has been prepared to analyze the potential impacts associated with the proposed action in accordance with the:

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- National Environmental Policy Act (NEPA) of 1969, 42 United States Code (USC) § 4231 et seq., as amended in 1975;
- Council on Environmental Quality (CEQ), 40 Code of Federal Regulations (CFR) §§ 1500-1508; and
- Environmental Impact Analysis Process, 32 CFR § 989.

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Andrews AFB is a 4,346-acre installation located approximately 10 miles southeast of Washington, D.C. in Prince George's County, Maryland (Figure 1-1). Established in 1947, the base serves as a travel and support center for the President of the United States and other distinguished Federal and foreign civilian and military dignitaries through its host organization, the 89th Airlift Wing (89 AW), part of the U.S. Air Force AMC. Andrews AFB also hosts more than 60 partner units, including (among others) the: U.S. Air Force Reserve Command 459th Air Refueling Wing (USAFRC 459 ARW), Air National Guard (ANG) Readiness Center, District of Columbia Air National Guard (DCANG) 113th Wing, U.S. Army Priority Air Transport (PAT), the Civil Air Patrol (CAP), the Maryland State Police, and the Naval Air Facility (NAF) Washington.

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## 1.2 Need for Action

- 32 The proposed action is needed to comply with the information security requirements of
- 33 Department of Defense (DoD) Regulation 5200.1-R (January 1997), as amended by Assistant
- 34 Secretary of Defense (Command, Control, Communications, and Intelligence) letter on 26
- 35 October 01. This regulation (and amendment) provides that "classified meetings and
- 36 conferences shall be held only at U.S. Government activities or cleared DoD contractor facilities

with appropriate facility security clearances." The proposed action would meet that requirement by providing a centralized Washington, DC Readiness Complex at Andrews AFB, which currently does not exist for large groups. At this facility, senior DoD and government leadership in the National Capital Region would be able to securely exchange classified information.

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- Andrews AFB is an appropriate location for such a facility. It is a frequent embarkation and disembarkation point for U.S. leaders, foreign heads of state, and other military and diplomatic officials and dignitaries. This capability to fly-in and fly-out allows for discreet attendance at classified meetings. In addition, Andrews AFB is located about 10-20 miles from the White
- House and the headquarters of many of the agencies involved in national security, including DoD, Department of State, Department of Homeland Security, the Federal Bureau of
- 12 Investigation, the Central Intelligence Agency, etc.
- 13 However, Andrews does not currently have the capability to host large meetings or conferences
- 14 that involve classified discussions in combination with secure communications systems.
- 15 Moreover, Andrews AFB currently lacks sufficient lodging and dining facilities to enable these
- individuals to stay on base for extended periods under secure or self-contained conditions (e.g.,
- their individual or combined attendance for certain meetings cannot be disclosed to the public,
- 18 therefore, they cannot stay in facilities off-site). The proposed action would rectify these
- 19 deficiencies through construction and operation of a National Capital Region (NCR) Readiness
- 20 Complex, which would include a:
  - **Mission Planning Center** This secure conference center (approximately 38,000 square feet) would accommodate a 265-person auditorium, and conference rooms of various sizes, including a sensitive compartmented information facility (SCIF).
  - Lodging and Collocated Club Dining Facility The proposed lodging facility (approximately 280,000 square feet) would contain 500 rooms. The club/dining facility would accommodate civilians, officers and enlisted personnel in a building approximately 25,500 square feet in size. The club would also include a 600-person multifunctional banquet room.
  - The construction of the NCR Readiness Complex would provide a location that complies with the requirements of the DoD Information Security Program in the Washington, DC area. In addition, lodging and dining would be provided within the secured confines of the installation. Furthermore, the installation meets anti-terrorism/force protection standards, including biological, chemical and radiological threat detection. As a result, meetings requiring information security in the Washington, DC area could be discreetly attended with enhanced personnel protection.

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## 1.3 Objectives for the Action

The primary objectives of the action are to provide a functional multi-use conference facility that meets DoD information security standards in the National Capital Region. The NCR Readiness

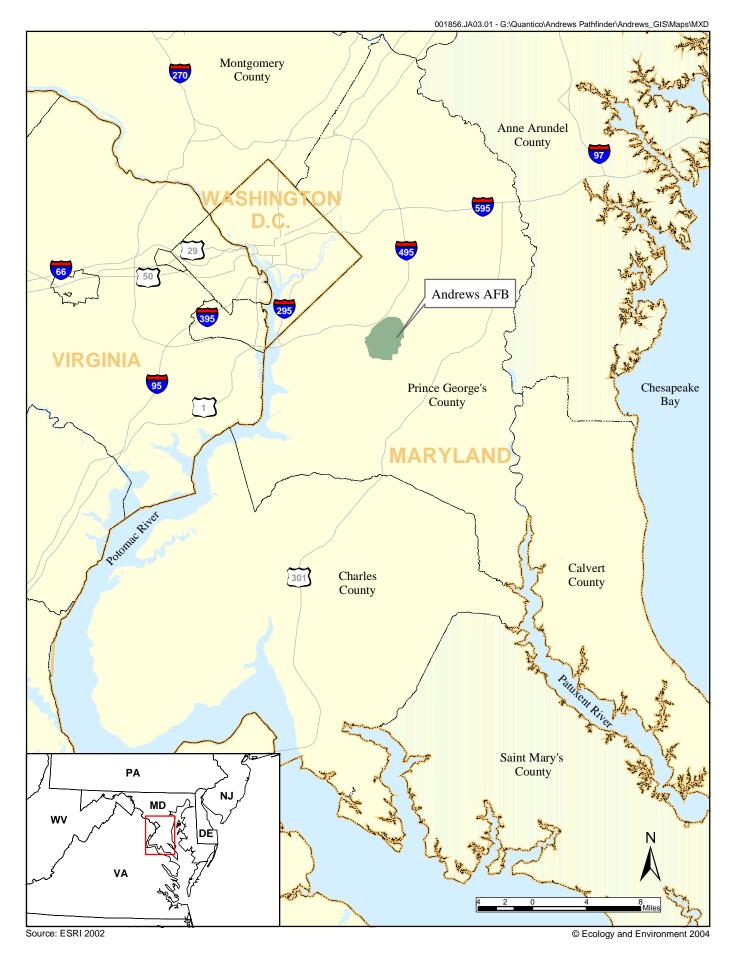


Figure 1-1: Regional Location, Andrews AFB

- 1 Complex would enable the senior leadership of the United States and other nations to fly into
- 2 Andrews AFB or readily commute locally, and attend conferences and meetings involving the
- 3 exchange of classified material in a self-contained facility that houses conferencing, lodging, and
- 4 dining amenities.

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## 1.4 Scope of EA

- 7 This EA evaluates the potential impacts of activities involved in constructing the NCR Readiness
- 8 Complex at Andrews AFB. Potential impacts to the human and natural environment could be
- 9 short-term, long-term, or cumulative. Consistent with the local interest of this EA and homeland
- security, Andrews AFB will provide an appropriate review and comment period before finalizing
- 11 the decision on the action.

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- 13 Relevant resources evaluated in this EA include land use; vehicular transportation; sewer system;
- 14 solid waste management; hazardous materials and waste management; air quality; noise;
- 15 socioeconomics; topography, geology, and soils; water resources; biological resources; and
- 16 cultural resources. The principal socioeconomic effects of the action would be those associated
- with environmental justice. The principal potential environmental effects of the action would be
- those associated with construction activities and stormwater runoff.

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## 1.5 Decision to be Made

- 21 The Chairman of the Environmental Safety and Occupational Health Committee at Andrews
- 22 AFB is responsible for deciding which alternative to adopt. The decision will be to either
- 23 implement the proposed action or select a reasonable alternative, including No Action. If the No
- 24 Action Alternative is selected, the NCR Readiness Complex would not be constructed. The
- decision will be based on the findings contained in this EA.

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## 1.6 Applicable Regulatory Requirements and Required Coordination

- 29 Table 1-1 lists each environmental permit, regulatory compliance requirement, and regulatory
- 30 agency consultation requirement for each of the three alternatives evaluated in the EA. For each
- 31 requirement, the table provides the regulatory citations, administering agency, and a brief
- description. The table also indicates which sections of the EA contain technical information
- relevant to each of the requirements.

Table 1-1 Environmental Permitting, Regulatory Compliance, and Coordination Requirements

				Applicability			
						No-	
Statute	Requirement	Agency	Description	Alt. 1	Alt. 2	Action	Section
Clean Air Act (42 USC 7401 et seq.)	Air Conformity Determination (40 CFR 93)	Maryland Department of the Environment (MDE)	Federal agencies must demonstrate that actions in nonattainment areas conform to the applicable State Implementation Plan.	Х	Х		4.4
Code of Maryland Regulations: Air Quality (26.11)	Permitting for Boilers greater that 1MBTU	Maryland Department of the Environment (MDE)	If a boiler installed at the facility will be greater that 1MBTU per hour, and less than 10 MBTU a small fuel burning general permit will be necessary. If the boiler is between 10MBTU per hour and 40 MBTU per hour, a medium fuel burning general permit.	X	Х		4.4
Clean Water Act (33 USC 1251 et seq.)	National Pollutant Discharge Elimination System (NPDES) Permit (40 CFR 122 et seq.; COMAR 26.08.01 et seq.)	MDE (Delegated from the U.S. Environmental Protection Agency [EPA])	Approval under a General NPDES Permit for Construction Activity is required for stormwater discharges from new construction activities disturbing 1 acre or more.	X	Х		4.8
National Historic Preservation Act (16 USC 470 et seq.)	Section 106 Consultation (36 CFR 800)	Maryland Historic Trust (State Historic Preservation Officer [SHPO] for Maryland)	Actions sponsored, funded, or permitted by Federal agencies must be reviewed by the SHPO for possible impacts to historic or archaeological resources eligible or potentially eligible for the National Register of Historic Places (NRHP).	X	Х		4.10
Endangered Species Act (16 USC 688 et seq.)	Section 7 Consultation (50 CFR 17)	U.S. Fish and Wildlife Service (FWS)	Actions sponsored, funded, or permitted by Federal agencies must be reviewed by the FWS for possible impacts to threatened or endangered species.	Х	Х		4.9
Article - Environment Title 4, Subtitle 1, Annotated Code of Maryland	Soil Erosion and Sediment Control Plan Approval (COMAR 26.17.01)	MDE	Required for actions that disturb greater than 5,000 square feet of land.	Х	Х		4.7 and 4.8
Article - Environment Title 4, Subtitle 2, Annotated Code of Maryland	Stormwater Management Plan Approval (COMAR 26.17.02)	MDE	Required for actions that disturb greater than 5,000 square feet of land.	Х	Х		4.8

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## 2 Description of Alternatives Including the Proposed Action

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## 2.1 Introduction

- 7 This Chapter describes the alternatives the Air Force has analyzed to accomplish the action.
- 8 Alternative 1 (preferred alternative) and Alternative 2, as well as the No Action Alternative, are
- 9 discussed here; there is also a discussion of the alternatives that the Air Force considered but
- eliminated from further analysis because they did not meet the selection criteria. Reasonable
- alternatives were identified as those alternatives meeting the selection criteria, which are based
- on the underlying purpose and need for action; highly speculative or remote alternatives were not
- considered further. The No Action Alternative is carried forward for analysis in accordance with
- considered further. The No Action Alternative is carried forward for analysis in accordance with
- 14 32 CFR § 989.8.

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## 2.2 Alternatives

#### 2.2.1 Selection Criteria for Alternatives

- 18 The factors considered when developing the alternatives described in this section were based on
- the mission planning and operational support requirements of Andrews AFB. For an alternative to satisfy the purpose and need described in Chapter 1 of this EA, it must:
- to sunsify the purpose and need described in enapter 1 of this 1111, 1

• Be capable of accommodating groups up to 600 persons.

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• Be located within the fenced area of Andrews AFB, well away from any boundaries to

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• Meet the information security requirements and the specifications and standards identified in:

provide the necessary security for DoD senior leadership and government officials.

27 identified in 28 – DoD Ro

 DoD Regulation 5200.1R, Information Security Program (January 1997) as amended by Assistant Secretary of Defense (Command, Control, Communications, and Intelligence) letter of 26 October 01; and

Air Force Instruction 31-401, Information Security Management Program (1
 November 2001).

- Allow for discreet attendance at scheduled meetings for extended durations by providing easy access to other support facilities, including but not limited to lodging, dining, and fitness.
- Be consistent with the Strategic Plan (General Plan) for Andrews AFB.

Using these factors, the following alternatives were identified as reasonable for evaluation in this EA:

• Construction of the NCR Readiness Complex at the Visitor's Quarters site on Menoher Drive and California Road.

 Construction of the NCR Readiness Complex at the former Andrews AFB Officers' Club site.

• Build Mission Planning Center only (No lodging or dining facilities).

No action.

# 2.2.2 Alternative 1 - Build NCR Readiness Complex at the Visitor's Quarters Site (Preferred Alternative)

Alternative 1 would involve the demolition of approximately 130,000 square feet of existing buildings (former Visitor's Quarters) and construction of the proposed NCR Readiness Complex at a site fronting on Menoher Drive and California Road. This is the current Visitor's Quarters site. Construction of the proposed Complex would include the demolition of 17 existing buildings and the closure of California Road to vehicle traffic between Menoher Drive and Arkansas Road. Elements of the proposed NCR Readiness Complex would include the construction and operation of a:

Mission Planning Center - This secure conference center (approximately 38,000 square feet) would accommodate a 265-person auditorium, and conference rooms of various sizes, including a sensitive compartmented information facility (SCIF).

• Lodging and Collocated Club (Dining) Facility - The proposed lodging facility (approximately 280,000 square feet) would contain 500 rooms. The club/dining facility would accommodate civilians, officers and enlisted personnel in a building approximately 25,500 square feet in size. The club would also include a 600-person multifunctional banquet room.

In addition, approximately 500 parking spaces would be provided. Figure 2-1 shows the location of the proposed project area. Figure 2-2 shows the layout for the proposed NCR Readiness Complex.

 This alternative would satisfy the purpose and need of the proposed action. The site is sufficient to allow construction of a multi-use building to accommodate groups of 600 persons or more, including parking, and the building would be designed to meet all applicable information security requirements. Furthermore, the site's location internal to Andrews AFB away from any boundaries would provide maximum security for senior DoD and government officials, and planned ancillary dining and lodging facilities would provide the necessary support within the

Figure 2-1 Overview of Andrews Air Force Base

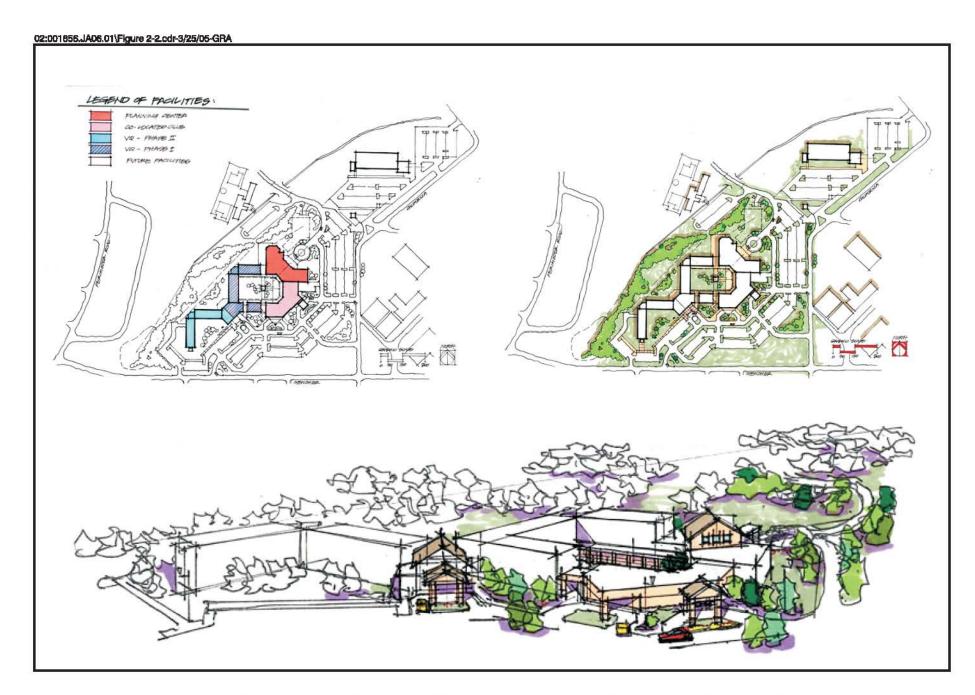


Figure 2-2 Layout of the Proposed NCR Readiness Complex, Andrews AFB (Alternative 1)

secured confines of Andrews AFB. Also, Andrews AFB's airfield would offer both convenient transportation and maximum security to U.S. and foreign meeting attendees.

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# 2.2.3 Alternative 2 - Build Mission Planning Center Conference Facility Only (No Lodging, Dining, or Fitness Facilities) at the Visitor's Quarters Site

Implementation of this alternative would result in the construction of the multi-use conference facility known as the Mission Planning Center at the Visitors' Quarters site. The lodging and collocated club dining facilities would not be constructed. This alternative would provide a 265-person auditorium, and conference rooms of various sizes, including a sensitive compartmented information facility where secure information could be exchanged in accordance with DoD regulation 5200.1-R. It would allow discreet attendance at scheduled meetings for extended durations provided sufficient capacity was available at existing lodging facilities at Andrews AFB. Small meetings would likely be accommodated by existing facilities. However, if lodging facilities had limited capacity or were not available, some attendees of large meetings scheduled at the Mission Planning Conference Center would have to use lodging facilities outside the gates of Andrews AFB. Existing dining facilities on the base would be available.

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#### 2.2.4 No Action Alternative

Although the No Action alternative would not fulfill the purpose and need for the action, it is carried forward as a baseline for comparison of the environmental effects of the proposed action. The No Action alternative would be defined as not constructing the NCR Readiness Complex at Andrews AFB. As stated in Chapter 1, the purpose of the proposed action is to provide a discreet and functional multi-use facility for large groups up to 600 persons within a U.S. Government activity convenient to Washington, D.C. that meets the information security requirements of DoD Regulation 5200.1-R. Andrews AFB does not currently have such a secure multi-use facility on the scale of that described in the purpose and need. commands or partners at Andrews AFB may individually have access to secure conference rooms, such rooms would not be capable of accommodating up to 600 persons, nor is there an existing multi-use facility at the base that allows convenient and discreet access to lodging, dining, and fitness services. Furthermore, even if such multi-use and secure facilities existed at Andrews AFB, there are no on-site lodging and dining facilities capable of accommodating large groups without requiring some meeting attendees to access lodging and dining facilities outside the gates of the base. As a result, the need for a centrally-located complex that provides for discreet attendance at meetings involving the exchange of classified information within the National Capital Region would not be satisfied.

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## 2.3 Alternatives Considered but Eliminated from Detailed Study

Another alternative to the proposed action that was considered in the planning process was to build the NCR Readiness Complex at the former Officers' Club site. This alternative was eliminated from detailed study because the former Officers' Club site has insufficient land area to accommodate the proposed NCR Readiness Complex unless the Complex was constructed in multiple stories. This resulting structure would be visible off-site, thereby compromising the required security of the facility. In addition, a multi-story structure would not be consistent with

the Base's Strategic Plan and furthermore, the cost of constructing a multi-story structure would be higher than with a single-story structure. Although this alternative would conceivably fulfill many aspects of the identified need, it was not deemed prudent or practical due to security issues.

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# 2.4 Description of Past and Reasonably Foreseeable Future Actions Relevant to Cumulative Impacts

This EA identifies actions that have been conducted in the past, are ongoing or in the planning stages, and future actions that are related to the proposed action. These actions are included in this cumulative analysis to the extent that details regarding such actions exist and the actions have the potential to interact with the proposed action. Two such actions are the proposed construction of new Temporary Lodging Facility (TLF) units at the corner of Brookley Street and F Street at Andrews AFB, and the proposed construction of a base Fitness Center.

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## 2.5 Comparison of Environmental Consequences

- 15 Table 2-1 summarizes the potential impacts of implementing the alternatives, including the No
- Action Alternative. The potential impacts to relevant resources are based on the information and
- analyses presented in Section 3.0 and Section 4.0. Potential short-term and long-term impacts
- were considered in the comparison of alternatives.

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Table 2-1 **Comparison of Alternatives** 

Table 2-1 Comparison of Alternatives							
Resource/Issue	Alternative 1	Alternative 2	No Action				
Land Use	Additional community and housing uses to be added at project site location.	Additional community uses to be added at project site location.	No change				
Vehicular Transportation	California Road would be closed to vehicle traffic between Menoher Drive and Arkansas Road. Potential for increased congestion in the proximity of the NCR Readiness Complex.	No change	No change				
Hazardous Materials and Wastes Management	Potential short-term negative effects should accidental release of hazardous waste (leaks and spillage of fuel or lubricants) occur during construction activities; implementation of standard operating procedures (i.e., best management practices [BMPs]) would reduce potential for release of hazardous materials. No long-term effects.	Potential short-term negative effects should accidental release of hazardous waste (leaks and spillage of fuel or lubricants) occur during construction activities; implementation of standard operating procedures (i.e., best management practices [BMPs]) would reduce potential for release of hazardous materials. No long-term effects.	No change				
Air Quality	Potential short-term effects due to emissions of particulate matter and combustion engine emissions during construction activities; long-term emissions during operation of the NCR Readiness Complex due to vehicular operations and operation of heating and other combustion equipment within the proposed Complex. Emissions are less than de minimis.	Potential short-term effects due to emissions of particulate matter and combustion engine emissions during construction activities; long-term emissions during operation of the NCR Readiness Complex due to vehicular operations and operation of heating and other combustion equipment within the proposed Complex. Emissions are less than de minimis.	No change				
Noise	Minor increase in noise during construction activities. Long-term changes in noise levels due to facility operation would not be significant.	Minor increase in noise during construction activities. Long-term changes in noise levels due to facility operation would not be significant.	No change				
Socioeconomics	No change in population; new employment opportunities for Complex employees, short-term employment opportunities for local contractors; may divert some visitor expenditure from local hotels and conference locations.	No change in population; fewer new employment opportunities for Complex employees, short-term employment opportunities for local contractors; may divert some visitor expenditure to local hotels and conference locations.	No change				
Topography, Geology, and Soils	Potential short-term effects to soils from construction activities; soil erosion control methods and BMPs reduce potential for effects; Additional impervious surfaces will be added.	Potential short-term effects to soils from construction activities; soil erosion control methods and BMPs reduce potential for effects; Additional impervious surfaces will be added.	No change				
Water Resources	No effect to groundwater or wetlands. Increased stormwater runoff would be controlled as identified in the Stormwater Management Plan as approved by MDE.	No effect to groundwater or wetlands. Increased stormwater runoff would be controlled as identified in the Stormwater Management Plan as approved by MDE.	No change				

Table 2-1 **Comparison of Alternatives** 

Resource/Issue	Alternative 1	Alternative 2	No Action
Biological Resources	Minor effects to vegetation and wildlife during construction activities. There would be no effect on threatened and endangered species.	Minor effects to vegetation and wildlife during construction activities. There would be no effect on threatened and endangered species.	No change
Cultural Resources	No effects expected based on information contained in Andrews AFB Cultural Resources Management Plan.	No effects expected based on information contained in Andrews AFB Cultural Resources Management Plan.	No change

## 3 Affected Environment

This section describes the existing physical, natural, and cultural environments of areas potentially affected by the proposed action.

## 3.1 Land Use

- 9 Andrews AFB encompasses 4,346 acres (excluding remote sites) in Prince George's County, 10 Maryland. The base is adjacent to the community of Camp Springs. Andrews AFB is home to
- the 89th Airlift Wing and provides worldwide airlift and logistical support for the President of
- the United States, the Vice President, cabinet members, and other high-ranking United States and
- 13 foreign officials, as well as the flight operation of more than 100 aircraft. Land uses at the base
- have been designated into twelve categories: existing structures, wetlands, surface water bodies,
- 15 golf course, administrative, community, dorm, flightline, industrial, medical, military family
- housing (MFH), and recreation (Figure 3-1).

The base is divided into a western and eastern section, separated by the airfield that runs north-south. The western portion of the base contains the majority of the land area, including a large outdoor recreation/golf course facility, all of the community facilities, and Malcolm Grow Medical Center. Land uses in the eastern section include various airfield operations support facilities and administrative/industrial facilities.

The overall visual character of the base is industrial and urban in nature, with large expanses of paved or developed land. Improved grounds, consisting of administrative and athletic areas, all covered areas (under building and pavements), family housing areas, golf course fairways and greens, and the two runways encompass approximately 2,260 acres, or 52%, of the total land area. Semi-improved grounds encompass approximately 1,500 acres of open spaces in the runway area and clear zone. The remaining 586 acres of the installation consist primarily of undeveloped forestland. The proposed project area is designated as a community unit. There are 17 existing buildings onsite currently used as visitors' quarters.

In accordance with Air Force Instruction (AFI) 32-7062, *Air Force Comprehensive Planning*, Andrews AFB developed a *Base General Plan* in 1996 that outlines existing and anticipated future land use on the base (USAF 1996). The plan was most recently updated in 2003. According to the 2003 plan update, little undeveloped land suitable for future development remains (USAF 2003). The only land use changes presently anticipated for the base are the proposed conversion of family housing near the East Gate (now closed, located on the northeast perimeter) to administrative use and the proposed conversion of family housing near the Pearl Harbor Gate (now closed, located on the east perimeter) to industrial use. Most capital

improvement projects proposed in the *Base General Plan* update involve renovations, demolitions, and construction of modest-sized buildings and other structures in the developed areas west and east of the airfield. The Base Strategic Plan provides for larger capital improvement projects. The construction of the proposed NCR Readiness Complex would be consistent with both the *Base General Plan* and the *Strategic Plan*.

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## 3.2 Socioeconomics

The project study area to examine the socioeconomic implications resulting from potential activities at Andrews AFB includes Prince George's County, Maryland and the entire Washington-Baltimore, DC-MD-VA-WV Consolidated Metropolitan Statistical Area (CMSA). The study area is expanded beyond the boundaries of Andrews AFB because it is not possible to distinguish between impacts that would be experienced in the immediate vicinity of Andrews AFB and those that would be experienced on a regional scale. This will be explained in further detail in Chapter 4 (Environmental Consequences and Mitigation Measures).

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## 3.2.1 Population and Housing

The study area populations presented in Table 3-1 include both 1990 and 2000 census data. Race and ethnicity statistics are included to provide a sense of the demographic composition of the community surrounding Andrews AFB. According to the 2000 census, the total population of Prince George's County was 801,515 persons. Between 1990 and 2000, the population of the county increased by almost 10%. By 2025, the county is projected to grow by an additional 18% to approximately 945,600 (Maryland Department of Planning, Planning Data Services 2005). The demographic composition of the regional population has also changed during the 1990's; the percent white has dropped significantly, while the percentage of minority populations has maintained or increased, as in the case of Black/African-Americans. These percentages can also be compared to the larger Washington-Baltimore CMSA, to which Price George's County is a component.

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30 31 Approximately 7,000 military personnel and their dependents reside at Andrews AFB (89 AW, 1998). Housing at Andrews AFB and the region is not discussed further in this EA as the NCR Readiness Complex, which will be constructed entirely within the boundaries of Andrews AFB will have no off-base impacts on housing.

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### 3.2.2 Economy, Employment, and Income

Prince George's County is part of a large metropolitan area surrounding the cities of 35 Washington, DC and to a lesser extent, Baltimore, Maryland. As such, many of its employment 36 37 and economic indicators are closely interrelated with its surrounding counties. This is due 38 primarily to the fact that many individuals commute to or from the county for daily employment. 39 Table 3-2 depicts the type, size, and proportion of the major industry sectors present within the 40 study area. The Washington-Baltimore CMSA is the fourth largest MSA in the United States by 41 population according to the 2000 US Census Bureau. Wholesale trade represented the highest 42 employment and annual business volume both in Prince George's County and the Washington-

Figure 3-1: Land Use Features, Andrews AFB

3,245Feet

APPROXIMATE SCALE

Baltimore CMSA; however, the retail trade sector had the most establishments, and professional, scientific and technical services had the highest annual payroll.

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Table 3-1 Local Population and Demographic Statistics, 1990 and 2000

Socioeconomic Parameter	Prince George's County, MD Washington-Baltim				-Baltimore C	MSA		
Socioeconomic Parameter	1990		2000		1990 <sup>1</sup>		2000	
Population				***				
Total Population	729,268	-	801,515	-	NA	-	7,608,070	-
% Change from 1990 to 2000	-		9.9%	-	-	-	-	-
Race <sup>2</sup>								
White	314,559	43%	216,774	27%	ΝA	-	4,791,400	63%
Black/African American alone	369,622	51%	501,431	63%	NA	-	1,980,986	26%
American Indian/Alaska Native alone	2,808	<1%	2,643	<1%	NA	-	23,529	<1%
Asian alone	27,437	4%	30,390	4%	NA	-	393,957	5%
Native Hawaiian/Pacific Islander alone	485	<1%	380	<1%	NA	-	3,900	<1%
Other (alone and two or more)	14,357	2%	49,897	6%	NA	-	414,298	5%
Ethnicity	·A						<u>-</u>	
Hispanic	28,927	4%	56,813	7%	NA	-	483,549	6%
Non-Hispanic	700,341	96%	744,702	93%	NA	-	7,124,521	94%

<sup>4</sup> The Washington-Baltimore CMSA was not a geographic are that the U. .S Census Bureau gathered data for in 1990.

6Source: U.S. Department of Commerce, Bureau of the Census 2005.

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Table 3-2 Statistics for Major Industry in the Vicinity of Andrews AFB, 1997

	Prince George's County, MD				Washington-Baltimore CMSA			
NAICS Industries	No. Est.	No. Empl.	Annual Payroll (\$1,000)	Annual Sales (\$1,000)	No. Est.	No. Empl.	Annual Payroll (\$1,000)	Annual Sales (\$1,000)
Manufacturing	372	11,179	408,545	2,008,136	4,979	180,692	6,729,603	39,149,042
Wholesale trade	759	13,904	542,883	9,053,657	8.247	123,675	5,174,022	80,810,198
Retail trade	2,425	38,214	675,798	6,390,538	27,318	383,694	7,050,373	66,662,563
Finance and insurance				_	10,233	156,283	7,339,466	NA
Real estate, rental and leasing	599	5,013	110,657	638,508	7,759	62,797	1,700,980	9,018,766
Professional, scientific and technical services	1,364	23,023	967,601	2,186,819	26,290	346,773	17,623,807	44,475,026
Administrative, support, waste management and remedial services	706	18,257	372,161	897,502	9,385	283,887	5,956,825	11,901,725
Health care and social assistance	1,396	13,111	408,100	939,811	15,462	162,986	5,140,058	11,741,626
Accommodation and food services	1,027	20,122	193,791	718,399	13,376	263,545	3,067,609	10,802,780
Other services	1,025	9,635	207,051	647,090	11,491	79,223	1,668,859	5,341,571

Source: 1997 U.S. Economic Census.

Note: The US Economic Census profiles the U.S. economy every five years from the national to the local level. The most recent Economic Census for the Washington-Baltimore CMSA and Prince George's County was prepared in 1997.

Chapter 3 June 2005

<sup>52</sup> Race categories were changed between 1990 and 2000 census, but these represents the best comparison.

exceed \$400 million annually.

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17 18 employ 8.7% and 4.7% of Camp Spring residents, respectively.

services, health care, and the government (Table 3-3).

Table 3-3 Local Employment and Income, 2002										
	Prince Ge County,		Washington- Baltimore CMSA							
Sector	2002	%	2002	% <sup>1</sup>						
Total employment	402,719	100%	5,187,017	100%						
Farm employment	756	<1%	18,146	<1%						
Non-Farm employment	401,963	-	5,168,871	-						
Private employment	316,497	-	4,186,062	-						
Construction	36,466	9%	(D)	NA						
Retail trade	48,427	12%	487,576	9%						
Professional and technical services	30,616	8%	630,818	12%						
Health care and social assistance	32,666	8%	455,382	9%						
Other (sum of numerous minor categories)	168,322	42%	1,930,284	37%						
Non-Private employment (government)	85,466	-	982,809	-						
Federal	25,493	6%	424,514	8%						
Military	8,190	2%	103,694	2%						
State and Local	51,783	13%	454,601	9%						

Andrews AFB is a major employer in Prince George's County. As of 2002, the total workforce at Andrews AFB was 16,983 persons, including 13,490 appropriated fund military personnel,

2,201 appropriated fund civilian personnel, and 1,292 non-appropriated fund contract civilians and employees of on-base private businesses. Combined military and civilian salaries at the base

Camp Springs, west of Andrews AFB, provides employees and visitors to Andrews AFB lodging

and dining opportunities. As of the 2000 census, 9,476 Camp Spring residents, 67.8% of the

population, are employed in the labor force. Service occupations employ 40.5% of Camp Springs residents while the industries of retail trade and accommodation and food services

Based upon Bureau of Economic Analysis estimates from 2002 (the latest year for which this

type of data are available), it is estimated that there were over 400,000 and 5 million individuals employed in Prince George's County and the Washington-Baltimore CMSA, respectively. The

primary employment industries were construction, retail trade, professional and technical

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Unemployment data tracked by the Bureau of Labor and Statistics does not combine the MSAs of Baltimore and Washington, DC as with the data presented previously. Table 3-4 presents the annual historical unemployment rates for 2003 and 2004 for the geographic areas surrounding Andrews AFB. The unemployment rate for each geographic area dropped from 2003 to 2004, and would be considered low when compared with U.S. unemployment rates for the same period.

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Percentages for the Washington-Baltimore CMSA do not total to 100% due to some industry categories not reporting for disclosure purposes. (D) – Information is not reported for reasons of disclosure.

Table 3-4 Unemployment Rates, 2003 and 2004

Geographic Area	2003	2004
Prince George's County, MD	4.7	4.4
Washington-Arlington-Alexandria MSA	3.5	3.3
Baltimore-Towson, MD MSA	5.0	4.8
United States	6.0	5.5

#### 3.2.3 Taxes and Revenue

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The tax base for Prince George's County, Maryland is presented in Table 3-5 below. This information was taken from the Comprehensive Annual Financial Report (CAFR) for the county's fiscal year ending June 30, 2002. The largest take revenue stream is taxes at 82%, followed by intergovernmental revenue (11%), which combined, makeup essentially the entire county revenue stream. The county's expenditures are slightly more evenly distributed over such efforts as general government (12%), public safety (25%), and education (43%).

Table 3-5 Prince George's County Finances, June 30, 2002

Financial Parameter	Total Governmental Funds	% of Total
Revenue		
Taxes	921,120,075	82%
Licenses and permits	16,611,586	1%
Fines and forfeitures	2,879,928	<1%
Use of money and property	15,411,295	1%
Charges for services	33,935,997	3%
Sale of property	683,565	<1%
Intergovernmental	128,952,097	11%
Miscellaneous	3,591,500	<1%
Total Revenue	1,123,186,043	100%
Expenditures		
Current:		
General government	144,864,517	12%
Public safety	304,459,411	25%
Public works	12,874,662	1%
Health	51,656,607	4%
Public welfare	30,540,098	2%
Capital projects	58,682,210	5%
Education:		
Board of Education	520,690,491	43%
Community College	13,128,109	1%
Memorial Library	14,677,932	1%
Debt service:		
Principal retirement	40,504,999	3%
Interest	30,182,353	2%
Total Expenditures	1,222,261,389	100%
Excess of Revenue Over (Under) Expenditures	(99,075,346)	

Source: Prince George's County CAFR

Note: Even though the table indicates that Prince George's County expenditures exceed its revenue stream, the county has other financing sources from which it obtains revenue. The purpose of this table is not to show the financial position of the county, but to present the major streams through which revenue and expenditures travel.

#### 3.2.4 Environmental Justice

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, mandates that Federal agencies identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs on minority and low-income populations. Disproportionate environmental impact occurs when the risk or rate for a minority population or low-income population from exposure to an environmental hazard exceeds the risk or rate of the general population and, where available, to another appropriate comparison group (DOD 1995; EPA 1998).

Executive Order 13045, *Protection of Children from Environmental Health Risks and Safety Risks*, mandates that Federal agencies identify and assess environmental health and safety risks that may disproportionately affect children as a result of the implementation of Federal policies, programs, activities, and standards (62 *Federal Register* 19883-19888).

 In order to comply with Executive Orders 12989 and 13045, ethnicity, poverty status, and age of the populations in the census tracts bordering Andrews AFB were examined and compared to regional, state, and national data (Table 3-6). The potential effects of the proposed action on minority and low-income populations and children have been evaluated in accordance with the requirements of the Executive Orders and are documented in Chapter 4.

Table 3-6 Environmental Justice Data

Location	Percent Minority <sup>a</sup>	Percent Below Poverty Level <sup>b</sup>	Percent Aged 17 Years or Younger
United States	22.4	12.4	25.7
Maryland	34.0	8.5	25.6
Prince George's County	70.4	7.7	26.8
Tract 8011.04 (Andrews AFB)	32.0	2.4	35.0
Tract 8007.01	81.0	3.6	27.0
Tract 8007.02	57.0	3.7	26.0
Tract 8012.03	77.0	3.1	27.0
Tract 8012.04	78.0	1.8	26.0
Tract 8012.05	64.0	6.3	25.0
Tract 8019.06	70.0	6.6	29.0
Tract 8022.01	70.0	5.7	25.0

Source: US Department of Commerce, Census Bureau 2000.

As shown in Table 3-6, the percent minority of the populations residing in three of the seven census tracts surrounding Andrews AFB is higher than the county level. (Note: the minority percentage in the county is significantly higher than that of Maryland as a whole). With a 7.7% county figure for those living below the poverty level in the county, none of the seven census tracts surrounding Andrews AFB exceeds this percent. In addition, three of the seven census tracts surrounding Andrews AFB have a percentage of children aged 17 or younger that exceeds the county figure of 26.8%.

<sup>&</sup>lt;sup>a</sup> To calculate the Total Percent Minority, the numbers for only individuals in the "one race" category were included. The "one race" individuals represented 95-99% of the population and allows for an accurate portrayal of the entire population.

<sup>&</sup>lt;sup>b</sup> The most recent data for % below poverty level available was used in the table. The national, state, county, and the census tract data are year 1999 information.

# 3.2.5 Community Services and Facilities

Community Services and Facilities are not anticipated as being a necessary component of this analysis since the proposed action will occur entirely on Andrews AFB and will not require significant use of the local community's infrastructure.

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#### 3.3 **Transportation**

7 Andrews AFB is located 5 miles southeast of Washington D.C. The primary artery serving Andrews and the surrounding communities are Interstates 95/495 (I-95/495), known as the 8 Capital Beltway, running along the west side of the base, and providing direct access to 9 10 Allentown Road (MD 337), Suitland Parkway, and Marlboro Pike. Other routes, including 11 Maryland Routes 4, Pennsylvania Avenue, and MD 5 are other arterials that feed traffic off I-12 95/495 onto other local roadways. Vehicle entry to Andrews AFB is controlled at three access 13 gates. Visitors lacking passes must report to the visitor's center at the Main Gate to obtain a 14

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pass.

The roadway system at Andrews AFB forms somewhat of a grid pattern. Perimeter Road follows the entire perimeter of Andrews and is divided into North, East, South, and West segments. North Perimeter Road and South Perimeter Road are two-lane paved roads that cross the northern part and southern part of the airfield, respectively. These two segments of Perimeter Road allow vehicles to cross from the western to the eastern part of the base. Roadways at Andrews AFB can be classified into one of three classifications. These classifications are arterial highways, collector roadways, and local roadways:

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• Arterial Highways - Serve the movement of people and freight regionally between population and activity centers with a minimal level of access to adjacent properties.

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• Collector Roadways - Serve the movement of people and freight from population and activity centers and funnel them onto arterial highways with a moderate level of access to adjacent properties.

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• Local Roadways - Provide access to adjacent properties and move people onto collector and arterial roadways.

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Only Perimeter Road is classified as an arterial highway. Collector roadways may be grouped into major collector roadways and minor collector roadways. Collector roadways located within Andrews AFB include: Patrick Avenue, Fetchet Avenue, Arnold Avenue, Brookley Avenue, Virginia Avenue, Menoher Drive, Arkansas Avenue, and San Antonio Boulevard. Local roadways are located in all portions of the base and serve as the direct connections to parking lots and adjacent properties. Access to the new NCR Readiness Complex would be provided via Perimeter Road to Menoher Drive. Review of the Andrews Air Force Base Comprehensive Transportation Study indicates that overall, existing transportation conditions at Andrews AFB

42 are acceptable, with each of the access routes having a level of service (LOS) of C or better.

# 3.4 Infrastructure/Utilities

# 3.4.1 Wastewater Collection and Disposal

- 3 Wastewater collected by Andrews AFB's sanitary sewer system is treated at wastewater
- 4 treatment facilities owned and operated by Washington Suburban Sanitary Commission (WSSC).
- 5 Two on-base collection systems convey wastewater by both gravity sewer and force mains.
- 6 Many of the lift stations have been upgraded in recent years. Moreover, the system is currently
- being privatized, which is intended to lead to improvements in the system's physical condition
- 8 and efficiency.

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- 10 The proposed site would be connected to the sanitary sewer system on the west side of the base
- 11 that discharges to the West Branch wastewater treatment plant. The West Branch wastewater
- 12 treatment plant has a capacity of 30 MGD. The main trunk lines on the west side follow West
- 13 Perimeter Road, Menoher Drive, San Antonio Boulevard, and Colorado Avenue. A 21-inch
- sewer trunk line exits the west side under Branch Avenue, approximately 1,500 feet south of
- 15 Georgia Avenue.

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# 3.4.2 Potable Water Supply

- 18 The potable water supply at Andrews AFB is supplied by WSSC. The Potomac River supplies
- 19 two storage reservoirs, which have a combined capacity of 43 billion gallons. Andrews AFB's
- 20 potable water is treated by the Potomac River Water Filtration Plant. The Potomac Water
- 21 Filtration Plant has a capacity of 285 MGD. Andrews AFB receives its water supply through
- 22 three connections of 8-, 12- and 14- inches. Typically, only two of the three connections are
- 23 open at one time. The smallest connection is typically closed due to lower water pressure. The
- 24 two service connections improve flow and water quality throughout the system. The required
- 25 storage capacity at Andrews AFB is 825,000 gallons of potable water, given the average daily
- demand of 1.65 MGD.

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# 3.4.3 Solid Waste Management

- 29 The Civil Engineering Operations Flight manages the program for collecting, handling, and
- 30 disposing of solid waste generated on the base. The Resources, Recovery and Recycling
- 31 Program (RRRP) office is responsible for the collection, segregation, accumulation and
- 32 disposition of domestic waste recyclables from numerous industrial and domestic collection
- sites. Solid waste generated on the base that cannot be recycled is collected and disposed of by a
- contractor to at a licensed landfill in Prince George's County. In addition, construction debris is
- disposed of at an off-site landfill by the contractor responsible for any renovation or demolition
- alsposed of at all off-site failed in by the contractor responsible for any renovation of demonstron
- 36 activities.

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# 3.5 Topography, Geology, and Soils

## 39 **3.5.1 Topography**

- 40 Andrews AFB is located near the western margin of the Coastal Plain physiographic province.
- 41 This province is characterized by gently rolling hills and valleys (USGS 2004). Elevations at the
- base range from approximately 220 feet above mean sea level (amsl) in the southeast corner of

the base to approximately 280 feet amsl in the northern section. Areas of moderately sloping topography are limited to stream banks.

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# 3.5.2 Geology

The Coastal Plain Province is underlain by a wedge of unconsolidated sediments, including gravel, sand, silt, and clay. The thickness of these sedimentary layers is approximately 1,300 feet in the vicinity of Andrews AFB. The sediments dip eastward at a low angle, generally less than one degree, and thicken seaward. Surface materials are comprised mainly of sand and gravel with minor amounts of silt and clay.

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#### 3.5.3 Soils

The Soil Conservation Service completed a detailed soil survey of Andrews AFB in 1974 (SCS 1974). Approximately 85% of Andrews AFB has been disturbed by cut and fill or other construction activities since 1942. Soils on most of the airfield and base lands north and south of the airfield are mapped as Udorthents, defined as soils that have been altered by cutting, filling, or urban development. Soils throughout the airfield were graded during construction of the runways, taxiways, and overrun surfaces. Most soils south of the airfield constitute cuts and fills associated with two abandoned landfills and construction of South Perimeter Road, Base Lake, a series of borrow pits, and (more recently) an extension to the base golf course. Soils in the narrow floodplain bordering the channel of Piscataway Creek are mapped as Iuka fine sandy loam, a soil mapping area known to contain inclusions of poorly drained hydric soils.

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The Gibson soil survey of 1978 indicates 12 soils in the project area. The majority of soils in the proposed project area are characterized as prime farmland. Soils are well drained with a water table deeper than 6 feet.

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# 3.6 Water Resources

#### 3.6.1 Groundwater

- Shallow groundwater occurs beneath Andrews AFB within the Brandywine Formation and the underlying Calvert Formation. These formations range in thickness from 65 to 150 feet.
- 31 Groundwater is generally encountered at the base from approximately 4 to 9 feet below the
- 32 ground surface. In general, the direction of groundwater flow at the base is toward the south to
- 33 Piscataway Creek (NOAA 2004).

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Deep aquifers beneath Andrews AFB occur in the Magothy, Patapsco, and Patuxent Formations. Each of these aquifers has the potential to yield significant quantities of water. The estimated depths to the tops of the aquifers range from 300 to 900 feet (HQ Air Force 2001).

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# 3.6.2 Surface Water

- Andrews AFB is located on a drainage divide that separates the watersheds of the Potomac River to the west from the Patuxent River to the east. The majority of the base drains to the south and
- west and is within the Potomac River watershed. Headwater tributaries to the Potomac River

- 1 originating on the base include Piscataway Creek, Meetinghouse Branch, Paynes Branch, and
- 2 Henson Creek. The northeast section of the base is within the Patuxent River watershed. Two
- 3 headwater tributaries to the Patuxent River, Cabin Branch and Charles Branch, originate in this
- 4 section of the base. In addition to these watercourses, nine small ponds and Base Lake are
- 5 located within the installation. Base Lake covers approximately 14 acres in the southern section
- 6 of the base. There are no natural surface waters in the proposed project area. The proposed site 7
  - is within a hundred feet of Meetinghouse Branch to the southwest.

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#### 3.6.3 Wetlands

- 10 A wetland survey was conducted in 2004 at Andrews AFB. No wetlands are located within the
- proposed project area. The closest wetland is approximately 1,000 feet east of the southeast 11
- 12 corner of the proposed project area. The wetland is east of Brookley Avenue, between Arkansas
- 13 Road and D Street.

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# 3.6.4 Floodplains

- Formal mapping of floodplains at Andrews AFB is underway. Based on its position in the 16
- 17 landscape, this mapping is likely to depict base floodplains as limited to narrow zones of low-
- 18 lying land immediately adjacent to stream channels.

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- 20 Prince George's County has performed flood modeling as part of a comprehensive watershed
- 21 management plan for Piscataway Creek (Prince George's County 1986b). The modeling showed
- 22 that South Perimeter Road in the southern section of Andrews AFB is susceptible to inundation
- by the 100-year flood. The modeling projects that a 100-year flood would inundate South 23
- 24 Perimeter Road to a depth of 2.5 feet at the point where it crosses Piscataway Creek. The
- 25 proposed project site is not located within the 100-year floodplain.

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#### 3.6.5 Drainage

- 28 Andrews AFB's stormwater system of catch basins and culverts guide water through a series of
- natural drainages, underground storm sewer pipes and man-made ditches. 29
- approximately 16 stormwater outfall basins. The majority of stormwater leaving the base drains 30
- 31 into the Piscataway Creek watershed and eventually into the Potomac River. Figure 3-2 depicts
- 32 Andrews AFB's storm drainage system. The west side of the base has a storm drainage channel
- 33 flowing in a southwesterly direction from Freedom Hall to a discharge point south of Georgia
- Avenue. This channel collects all storm drainage in the housing and administrative areas. The 34
- 35 drainage channel comprises the northwestern border of the proposed site and is between 200 and
- 36 300 feet from the existing buildings on the site.

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# 3.7 Biological Resources

#### 39 3.7.1 Vegetation

- Andrews AFB is located in the Oak-Pine Forest Region, Atlantic Slope Section (Braun 1950). In 40
- 41 the original forest, deciduous trees (predominantly oaks and hickories) were the most abundant.

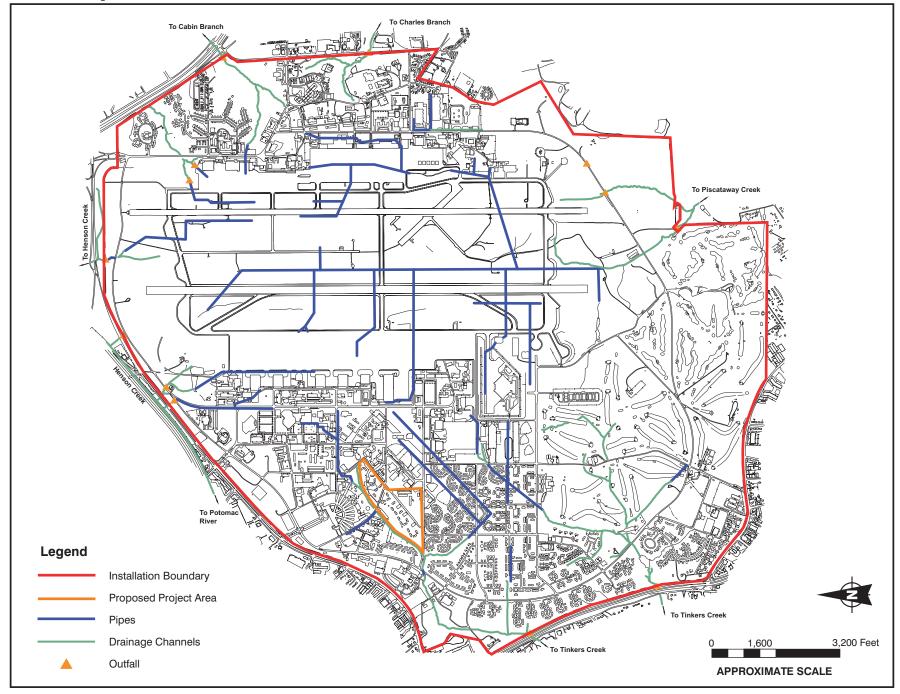


Figure 3-2 Storm Drainage System, Andrews AFB

# **Environmental Assessment**

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A significant portion of Prince George's County has been deforested for urban and suburban development.

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Vegetation communities at Andrews AFB consist of extensively managed landscape areas (improved areas) and other unmanaged patches of natural plant communities. Nearly 80% of the base is developed or intensely managed (improved or semi-improved). The intensely managed improved areas include lawns, gardens, golf course fairways, ponds, bare ground, and recreational fields. Semi-improved areas include runway borders, the infield, and approach clear zones, where vegetation is permanently maintained in an herbaceous condition. The remaining unimproved areas at the base primarily comprise late successional ecological communities, including mixed hardwood forests, mixed hardwood/pine forests, oak forests, oak/hickory forests, oak/pine forests, pine forests, and red maple swamp. These communities cover approximately 600 acres and are concentrated in the southern section of the base and around the base perimeter. Some scattered areas on the base also contain early successional herbaceous communities dominated by nonindigenous, invasive plants, such as Japanese honeysuckle (Lonicera japonica), English ivy (Hedera helix), wintercreeper (Euonymus fortunei), privet (Ligustrum spp.), periwinkle (Vinca minor), wineberry (Rubus phoenicolasius), tree-of-heaven (Ailanthus altissima), oriental bittersweet (Celastrus orbiculatus), autumn olive (Elaeagnus umbellata), Russian olive (Elaeagnus angustifolia), beggar-ticks (Bidens polylepis), tall fescue (Festuca elatior), purple loosestrife (Lythrum salicaria), Korean lespedeza (Lespedeza cuneata), common reed (*Phragmites australis*), and multiflora rose (*Rosa multiflora*).

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The majority of the proposed project area is currently maintained lawn with ornamental trees. The northwestern border of the site comprises a narrow forested area consisting of oaks (*Quercus* sp.), pines (*Pinus* sp.), sweet gum (*Liquidambar styraciflua*), maples (*Acer* sp.), and elms (*Ulmus* sp.). Beyond the tree line to the north and northwest is the drainage channel previously described in Section 3.5.

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#### 3.7.2 Wildlife

Wildlife diversity at Andrews AFB is limited due to the relatively minimal coverage and fragmented nature of natural habitats occurring at the installation. The maintained grassy areas associated with the airfield provide habitat for a variety of bird species that utilize open field habitats such as raptors, blackbirds, starlings, crows, and various species of songbirds. Small mammals utilizing this habitat would likely include the eastern cottontail rabbit, skunk, and various rodent species. Relatively greater species diversity would be expected in the upland and wetland forested habitats around the perimeter of the base. Larger mammal species such as gray fox, Virginia opossum, beaver, white-tailed deer, and raccoon as well as various species of reptiles and amphibians would likely be present in these areas. Base Lake, and to a lesser extent the other open water areas present on the base, provide habitat for various species of migratory waterfowl.

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The proposed project area is a developed landscaped area. Wildlife diversity at the site is fairly limited and restricted to small birds and mammals, including crows, blackbirds, squirrels and rabbits.

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# 3.7.3 Threatened and Endangered Species

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Inventories of Federal and state threatened and endangered species have been conducted at Andrews AFB in 1993, 1996/1997, and 2004/2005 (Davis 1993; Parsons 1998; E&E 2005).

Table 3-7 lists the threatened and endangered species that have been identified as occurring at

Andrews AFB, as well as the species protection status and habitat requirements.

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Table 3-7 Federal Threatened and Endangered Species and State-Listed Threatened and Endangered and Rare Species at or in the Vicinity of Andrews AFB

Species	Scientific Name	Federal Status	State Status	Habitat
Sandplain gerardia	Agalinis acuta	E	E	South of the flightline near the 13 <sup>th</sup> tee of The Course at Andrews Air Force Base
Ten-lobed agalinis	Agalinis obtusifolia	NS	E	South of the flightline and east of the old landfill site
Curtis' three-awn	Aristida curtissii	NS	R	Southeastern portion of airfield near the fire training facility
Spiral pondweed	Potamogeton spirillus	NS	R	East shore of the west pond southeast of the Base Lake
Tall nut-rush	Scleria triglomerata	NS	R	Southern perimeter fence of the base below the south clear zone of the east runway
Carolina foxtail	Alopecurus carolinianus	NS	R	Southern end of the wetland located southeast of the intersection of North Perimeter Road and Patrick Avenue
Swollen bladderwort	Utricularia gibba	NS	WL	Western branch of the Bell Chance Pond

Sources: Davis 1994; Andrews 1998, E&E 2005.

Status Codes:

E - Endangered R-RareNS - No Status

WL - Watchlist Species

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16 17 The only Federally-listed threatened or endangered species potentially occurring within or in proximity to Andrews AFB is the sandplain gerardia. The ten-lobed agalinis is state-listed endangered. There are also five plants considered rare by the state of Maryland, including Carolina foxtail, Curtis' three-awn, spiral pondweed, swollen bladderwort, and tall nut-rush. None of these species have been documented in or near the proposed project area. The closest documented location of a rare species, swollen bladderwort, is approximately 5,000 feet

northeast of the proposed project site in the western branch of Belle Chance pond.

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# 3.8 Cultural Resources

22 Section 110 (a)(2) of the National Historic Preservation Act (NHPA; 16 U.S.C. 470, as 23 amended) requires Federal agencies to inventory, protect, and maintain historic properties under their jurisdiction. Under Section 110 of the NHPA, Federal agencies are obligated to take into 24 25 account the effect of their undertakings on cultural resources and to provide the Advisory Council on Historic Preservation an opportunity to comment on these undertakings. An 26

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Integrated Cultural Resources Management Plan (ICRMP) (2003) has been developed for Andrews Air Force Base (AFB) and the base's discontiguous properties, Davidsonville Transmitter Station and Brandywine Receiving Station. The ICRMP provides guidance for the management of cultural resources as an integral part of the Base Comprehensive Plan (BCP), as required by Air Force Instruction (AFI) 32-7065, *Cultural Resources Management*, for the five-year period beginning in fiscal year 2002. It also documents the base's prehistory, history, cultural resource investigations, and identified cultural resources.

According to the ICRMP, seven cultural resource surveys and investigations have been conducted at Andrews AFB. In 1993, National Park Service prepared a Cultural Resource Report and Management Recommendations. In 1994, John Cullinane Associates inventoried and evaluated all pre-1947 buildings and structures. In 1995, Argonne National Laboratory conducted a Phase I archaeological investigation. The same year, K.J. Weitze of Geo-Marine, Inc. conducted an inventory of Cold War properties. In 1996, the National Parks Service (NPS) assessed the historical properties inventory and compliance efforts for Andrews AFB as part of the *U.S. Air Force Cultural Resources Servicewide Overview Project*. In 1999, Paula Bienenfeld and Hope Leininger of Tetra Tech, Inc. conducted a Phase II archaeological investigation of six sites at Andrews AFB (Sites 18PR443 through -448) and three at the Davidsonville Transmitter Station (Sites 18AN958, -959, and -961). In 2002, Parsons conducted an inventory of selected Cold War properties using MDSHPO survey forms.

As a result of these surveys and investigations, it was determined that there is one archeological site (sites 18PR447) and three buildings (Building 1966, Belle Chance Family House, Building 1967, Belle Chance Storage Shed, and Building 1968, Belle Chance Garage) on Andrews AFB that are potentially eligible for listing in the NRHP. The NRHP-eligible archaeological sites and historic structures are summarized in Table 3-8.

Table 3-8 National Register Eligible Archeological Sites and Buildings at Andrews AFB

Sites					
Site Number	Site Type	Date	Size		
18PR447	Plantation House	Late 18th through Early 19th Century	5,400 sq. meters		
		Buildings			
Building Number	Building Name	Year Built	Source		
1966	Belle Chance (Family Housing)	1912	Harrel and Montagliani 1984 NPS 1993 John Cullinane Associates 1994		
1967	Belle Chance (Storage Shed)	1912	John Cullinane Associates 1994		
1968	Belle Chance (Garage)	1912	John Cullinane Associates 1994		

 There are 17 Cold War structures currently located on the proposed project site. These buildings were constructed during the Cold War-era and were pre-fabricated wood structures set on foundations. The buildings were used primarily as visitors' quarters. None of these structures have been recommended as eligible for listing in the NRHP.

# 3.9 Air Quality

The Clean Air Act (CAA) of 1970, 42 U.S.C. 7401 *et seq.*, amended in 1977 and 1990, is the primary Federal statute governing air pollution. The CAA designates six pollutants as criteria pollutants for which National Ambient Air Quality Standards (NAAQS) have been promulgated to protect public health and welfare. The six criteria pollutants are particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), lead (Pb), and

ozone (O<sub>3</sub>). The State of Maryland has adopted these Federal standards.

Federal law requires states or local air quality control agencies to have a State Implementation Plan (SIP) that prescribes measures to eliminate or reduce the severity and number of violations of NAAQS and to achieve expeditious attainment of these standards. Areas that do not meet NAAQSs are designated as "nonattainment" for those criteria pollutants. Nonattainment status is further defined by the extent the standard is exceeded.

Andrews AFB is located in Prince George's County within the Washington Metropolitan Area Air Quality Control Region. Prince George's County is currently in attainment for NO<sub>2</sub>, CO, SO<sub>2</sub> and PM<sub>10</sub> and lead. Portions of the Washington Metropolitan Area Air Quality Control Region, including Prince George's County, have been designated as "severe" nonattainment areas for the 1-hour ozone standard.

New standards for 8-hour ozone and  $PM_{2.5}$  concentrations were promulgated in 1997, and on April 15, 2004 the U.S. Environmental Protection Agency (EPA) designated attainment and non-attainment areas for the 8-hour ozone standard. At that time, Prince George's County was classified as a moderate non-attainment area for the 8-hour ozone standard. In addition, EPA stated it would revoke the 1-hour standard one year after the effective date of designating attainment and nonattainment areas for the 8-hour standard. Therefore, the 1-hour standard will be revoked as of June 15, 2005.

The designation of the Washington Metropolitan Area Air Quality Control Region as a "severe" nonattainment area for ozone is mainly attributed to nitrous oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs) emissions from automobiles in the metropolitan area on warm days with low wind speeds. Maryland has submitted a State Implementation Plan (SIP) for the metropolitan region to attain and maintain compliance with the NAAQS in accordance with the CAA for the 1-hour ozone standard. Maryland must submit a revised SIP to address the 8-hour ozone standard nonattainment designation by June 2007. The NAAQS are not to be exceeded more than once per year, except for O<sub>3</sub> and particulate matter less than 10 micrometers in diameter (PM<sub>10</sub>), which are not to be exceeded more than an average of one day per year for a 3-year period. Although the 1-hour ozone standard will be revoked, the current SIP will remain in effect until a new SIP is developed and implemented by 2007.

On December 17, 2004, the Environmental Protection Agency (EPA) designated areas for the Fine Particle (PM<sub>2.5</sub>) NAAQS. As a part of the Washington Metropolitan Area Air Quality Control Region, Prince George's County was designated as non-attainment for PM<sub>2.5</sub>. As required by this regulation, the State of Maryland must detail control requirements in plans demonstrating how they will meet the PM<sub>2.5</sub> national air quality standard. States must submit

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their plans to EPA within three years after the Agency's final designations become effective. EPA is developing a PM<sub>2.5</sub> implementation rule to provide further guidance on what should be included in PM<sub>2.5</sub> plans. The rule will be proposed in early 2005 and finalized by early 2006.

# 3.9.1 The General Conformity Rule

The General Conformity Rule has been promulgated by EPA to ensure that the actions of Federal departments or agencies conform to the applicable SIP. The General Conformity Rule covers direct and indirect emissions of criteria pollutants or their precursors that are caused by a Federal action, are reasonably foreseeable, and can practically be controlled by the Federal agency through its continuing program responsibility. Conformity is demonstrated if the total net emissions expected to result from a Federal action in a nonattainment or maintenance area will not:

• Cause or contribute to any new violation of any NAAQS;

• Interfere with provisions in the applicable SIP for maintenance of any standard;

• Increase the frequency or severity of any existing violation; or;

• Delay the timely attainment of a standard, interim emission reduction or milestone including, where applicable, emission levels specified in the applicable SIP for purposes of demonstrating reasonable further progress, attainment, or a maintenance plan.

A Federal action is exempt from applicability of the General Conformity Rule requirements if the action's total net emissions are below the *de minimis* levels specified in the rule and are not regionally significant (i.e., the emissions represent 10% or less of nonattainment or maintenance area's total emission inventory of that pollutant) or are otherwise exempt per 40 CFR 93.153. Total net emissions include direct and indirect emissions from all stationary point and area sources, construction sources, and mobile sources caused by the Federal action. However, there are special considerations regarding mobile-source emissions. If the action or a portion of the action is subject to the transportation conformity rule, that portion of the action is not subject to the General Conformity Rule.

With the revocation of the 1-hour ozone standard after June 15, 2005, there is no clear direction for determining which *de minimis* threshold will be applicable to Prince George's County after that date; consequently, it is assumed that the *de minimis* threshold for the current severe ozone nonattainment area designation (25 tpy) remains applicable. Since the area was not previously given a PM<sub>2.5</sub> designation, no *de minimis* threshold for PM<sub>2.5</sub> is assumed applicable to the area.

# 3.9.2 Air Quality Operating Permit

Andrews AFB is divided into several organizational elements for purposes of air quality permitting. Air Force operations under the 89<sup>th</sup> Airlift Wing operate under a Title V Operating Permit issued by the MDE. The Title V Operating Permit includes various emission source types including boilers, paint booths, fuel tanks, and generators. There were 60 emission units in 2002 covered by the permit. In addition, there are partner units on the base (Air Force Reserve, Air

- 1 National Guard, the Navy, and Army/Air Force Exchange) that are not included in the Title V
- 2 Operations Permit, but operate emission units under separate statue construction permits issued
- 3 by MDE. The calendar year 2002 total emissions for Title V registered sources at Andrews AFB
- 4 are provided in the emissions certification report (Andrews AFB 2003).

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# **3.10 Noise**

- 7 The primary source of noise at Andrews AFB is associated with aircraft operations and 8 maintenance. These noise sources impact land uses on the station as well as in the surrounding 9 developed areas. The noise environment around an air station typically is described using a 10 measure of the cumulative noise exposure (i.e., day-night average sound level [DNL]) that results from aircraft operations. DNL takes into consideration the time of day that aircraft events 11 occur. Noise that occurs between 10:00 p.m. and 7:00 a.m. is weighted more heavily than noise 12 during the day to account for the difference in human noise perception during the nighttime
- 13 hours. Within the 65 DNL contour, noise levels are similar to an urban environment. Noise 14
- 15 levels in the 75 DNL contour would be similar to the downtown area of a major city.

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23 24 Noise zones associated with Andrews AFB are generally asymmetrical, reflecting higher noise levels east of the runways because of the greater number of closed pattern flight operations conducted over the more rural landscape east of the base (89 AW, 1998). Most of the central part of the base, including the airfield, flight lines, Base Lake Recreation Area, eastern extension of the golf course, and some of the administrative areas in the eastern part of the base, are located within the 80+ decibel (dB) DNL or the 75-80 dB DNL noise zones. The remainder of the eastern part of the base and areas close to the western flight line are within the 65-75 dB DNL noise zone. The proposed NCR Readiness Complex would be constructed in an area of Andrews AFB that is subject to noise levels of less than 66 db DNL.

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# 3.11 Hazardous Materials and Waste Management

- 28 Andrews AFB is a large quantity generator of hazardous waste permitted under the Resource
- 29 Conservation and Recovery Act (RCRA). The 89th Civil Engineering Squadron Environmental
- 30 Flight is responsible for compliance with the base's Toxic Substances Control Act (TSCA)
- permit. Primary types of hazardous wastes generated at Andrews AFB include batteries, used 31
- 32 fuel and oil, solvents, fluorescent bulbs, contaminated rags and fuel filters, and solvent-33 contaminated solids. The majority of hazardous waste is generated from aircraft operations.

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Historic fuel supply activities, landfills, and other support and training operations impacted portions of the ground and surface waters at Andrews AFB with metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and pesticides. Andrews AFB was formally added to the National Priorities List (NPL) in June 1999.

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The Environmental Restoration Program (ERP), formally known as the Installation Restoration Program (IRP), was established by the DoD to protect human health and the environment by

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addressing sites where past activities led to releases of hazardous substances to the environment. These sites are addressed based on the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as well as the National Oil and Hazardous Substances Contingency Plan (NCP). Andrews AFB is responsible for 27 ERP Sites and 6 Areas of Concern (AOCs) on the base and on remote sites located in Brandywine and Davidsonville, Maryland.

Figure 3-3 provides the locations of the ERP sites and AOCs at the main base. The proposed project area is adjacent to ERP Site 19. ST19 collectively refers to sites in military family housing where over 500 underground storage tanks containing heating oil were removed as the housing units were converted to natural gas. The project to remove the tanks took place in 1993; today only three sites remain that have been impacted by leakage from the tanks and the remainder have been closed by the Maryland Department of the Environment. The sites are located in the Family Housing Units along the western border of the base from the Virginia Avenue Gate to Menoher Drive, in the southwest corner north of Old Alexandria Ferry, and in the northeast section, north of Fetchet Avenue and east of Patrick Avenue (Agency for Toxic Substances and Disease Registry, 2001).

Lead-based paint policy at Air Force installations requires that each installation develop and implement a facility management plan for identifying, evaluating, managing, and abating lead-based pain hazards. Lead-based paint activities at Andrews AFB are managed by the base bioenvironmental engineering staff, environmental staff, and representatives from civil engineering, the medial group, and safety. Lead-based paint detection sampling is accomplished prior to renovation or demolition of a facility. Inspection and abatement activities for facilities range from incidental and routine maintenance to full-scale abatement in preparation for demolition. If lead-based paint is detected in a building prior to an action and is determined to be a potential hazard or threat, the debris from the demolition or renovation is then disposed of in accordance with applicable Federal, state, and local hazardous waste and lead abatement regulations. Lead-based paint is managed according to the base's most recent *Lead-Based Paint Management Plan* (2004).

 Asbestos management at Air Force installations is established in AFI 32-1052, Facility Asbestos Management. AFI 32-1052 requires installations to develop an asbestos management plan for the purposes of maintaining a permanent record of the current status and condition of all asbestos-containing material in the installations facility inventory and documenting all asbestos management efforts. Andrews AFB bioenvironmental engineering staff conducts asbestos sampling where health issues are a concern. It is the responsibility of the construction/demolition contractor to conduct any required sampling prior to initiating the renovation or demolition of a facility. The samples must be sent to a state- or USEPA-certified laboratory for analysis. Asbestos-containing materials is disposed of in accordance with TSCA statutes and transported under applicable Department of Transportation regulations. Asbestos management and operations involving asbestos are conducted according to the base's *Asbestos Management Program Plan* (2004).

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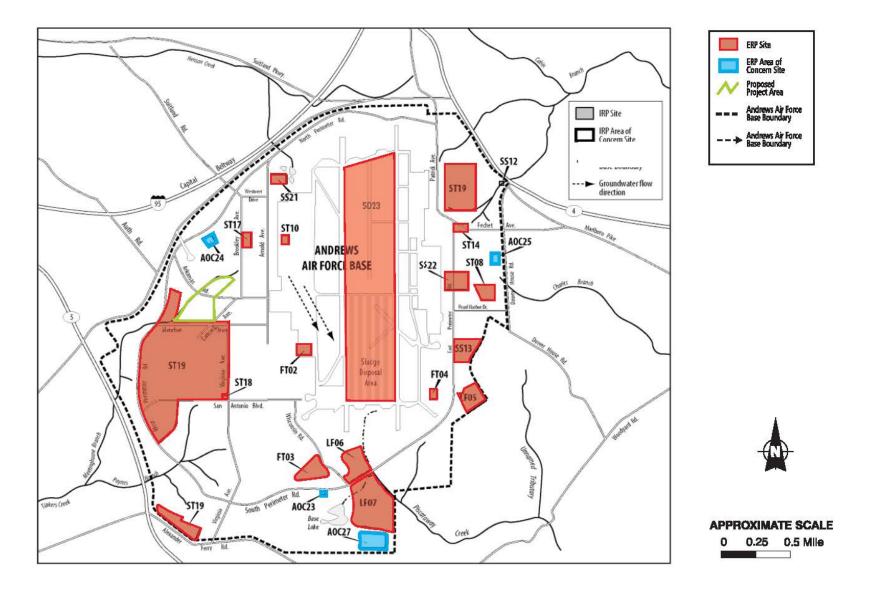


Figure 3-3: Environmental Restoration Program Sites and Areas of Concern, Andrews AFB

## **Environmental Assessment**

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# 4 Environmental Consequences

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This section presents the potential environmental consequences of implementing Alternative 1 and 2 and the No Action alternative. The potential impacts to the human and natural environment were evaluated relative to the existing environment described in Chapter 3. For each environmental resource or issue, anticipated direct and indirect effects were assessed, considering both short- and long-term project effects.

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# 4.1 Land Use

The significance of potential land use impacts is based upon the degree of sensitivity to land use changes affected by a proposed action. Typically, land use impacts are considered significant if they would: (1) violate or otherwise be inconsistent with adopted land use plans or policies; (2) undermine the viability of a preferred existing land use activity; (3) create threats to public health, safety, and welfare of adjacent or nearby land users; or (4) conflict with the fundamental mission of an installation. Alternatives 1 and 2 would not conflict with existing land uses or future land use plans.

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# 4.1.1 Alternative 1 (Preferred Alternative)

The site for the Proposed Action is currently maintained as a community area. Alternative 1 would maintain the site for community purposes, including secure conference capabilities and lodging and facilities (collocated club). Demolition of the current structures on-site would occur in order to accommodate construction of the new facilities. Andrews AFB offers several beneficial land use characteristics that would benefit operation of the proposed NCR Readiness Complex: (1) convenient transportation in the form of the airfield and the I-95 corridor; and maximum security to visitors. Implementation of Alternative 1 would not require Andrews AFB or Prince George's County to alter their planning assumptions and recommended land uses; therefore, no change to the local planning documents would be required.

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#### 4.1.2 Alternative 2

- 32 Similar to Alternative 1, Alternative 2 would not result in significant land use changes.
- 33 Implementation of Alternative 2 would benefit Andrews AFB by providing secure conferencing
- 34 that satisfies all information security requirements as well as a location with secure and
- 35 convenient transportation to the airfield.

#### 4.1.3 No Action

- 37 Under the No Action alternative, there would be no changes to current land uses at Andrews
- 38 AFB or the surrounding area. As a result, there would be no land use impacts associated with this
- 39 alternative.

# 1 4.2 Socioeconomics

- The socioeconomic impacts of implementing the proposed action would be limited to the effects on the local economy, employment and personal income. Due to the fact that the proposed action would occur entirely within the boundaries of Andrews AFB, it is anticipated that there
- 5 will be no significant impacts to population, housing, or taxes and revenue.

#### 4.2.1 Alternative 1

# 8 Population

- 9 Implementation of the proposed action under Alternative 1 would not result in any significant
- 10 changes in the permanent local population of Prince George's County or within the Washington-
- 11 Baltimore CMSA. The short-term construction period would result in temporary construction
- 12 jobs generated in the local area. However, given the large metropolitan area from which to draw
- from, it is anticipated that the majority of these jobs would be filled locally and not require
- 14 relocations.

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- With operation of the NCR Readiness Complex, some limited additional permanent jobs would
- 17 be available at the conference, lodging, and dining (collocated club) facilities. Depending on the
- task, these positions would either be filled by current military personnel stationed at Andrews
- 19 AFB or non-military personnel residing in the local area.

# Housing

- 21 There are no anticipated impacts to housing at Andrews AFB or the local community
- surrounding the base. Due to the construction being most likely performed by local contractors
- that would commute to the site each day, there should not be a need for temporary housing. At
- 24 most, occasional hotel rooms would be required for construction management personnel, but
- would not affect the local hotel room inventory. In addition, as discussed above, either military personnel or local civilians currently residing in the area would fill any permanent new
- 27 employment opportunities. In either case, there would be no significant impact on the local
- 28 housing inventory.

# Economy

- 30 The short-term economic impact of proposed action implementation under Alternative 1 would
- 31 be positive to the local community. Nearly \$92 million in construction costs would be expended
- 32 for the building of the proposed NCR Readiness Complex, including the Mission Planning
- Center, lodging, and dining facilities as shown in Table 4-1.

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Table 4-1 Construction Costs for Alternative 1

Facility	Cost (in millions)
Lodging Facility	
Phase I	\$27
Phase II	\$23
Mission Planning Center (Conference Center)	\$33
Dining Facility (Collocated Club)	\$8.4
Total	\$91.4

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Based on the size and industries represented in the Washington-Baltimore CMSA, it is anticipated that this construction work would be performed by local contractors, and the Air Force would use local labor and contractors to the extent feasible. This construction spending would also result in secondary indirect and induced economic benefits to the local community. The result of spending almost \$92 million primarily in the local community would benefit both local businesses and consumers.

Implementation of the proposed action under Alternative 1 would also have long-term positive benefits to the local community. There would be a moderate increase in spending in the local community resulting from the influx of attendees to the area for meetings. However, this spending would be limited, due to the fact that most of the lodging/amenities would be provided to meeting attendees within the boundaries of Andrews AFB.

# **Employment and Income**

Implementation of the proposed action would benefit local construction employment in the short-term as the NCR Readiness Complex is constructed at Andrews AFB. It is assumed that the cost attributed to construction payroll expenditures is included in the total construction cost numbers in Table 4-1. To the extent practicable, the Air Force would use local labor to complete the proposed action.

Under Alternative 1, it is anticipated that between 90 and 200 full-time employees (depending on events) would be required to operate the NCR Readiness Complex. It is assumed that this will consist of half military personnel and half civilians (50-50). The required military personnel are assumed to already be stationed at Andrews AFB, and consequently would not have a significant impact to the local community with respect to additional jobs or income.

The civilian employees that would be hired (ranging from 45 to 200) from the local community would consist of cooks, housekeeping, front-desk, and similar activities that would be anticipated at a conference center and an associated hotel and dining facility. It is difficult to quantify the increase in employment or income that will result from implementation of Alternative 1, due primarily to the fact that the number and type of positions that civilian employees would hold may fluctuate annually. However, there is sufficient information to state that there will be a moderate positive economic benefit to the community for full-time employment when the proposed action is implemented.

#### Taxes and Revenue

There would be a moderate net positive tax impact with implementation of Alternative 1 as a result of potential spending by meeting attendees coupled with the additional disposable income associated with full-time staff. However, this benefit would be limited and not considered significant under Alternative 1.

#### **Environmental Justice**

As discussed in Chapter 3, there are four census tracts surrounding Andrews AFB that would be considered sensitive populations as defined by Executive Order 12989. This is based on their percent level of either minority population, population living below the poverty level, or population aged 17 or younger (see Table 3-6). On the basis of the analysis of environmental impacts as documented in this EA, implementation of Alternative 1 would result in no significant

environmental impacts in any resource area. Thus, Alternative 1 would cause no disproportionately high or adverse health or environmental effects on minority or low-income populations pursuant to Executive Order 12898, nor would implementation of this alternative pose disproportionate environmental health or safety risks to children pursuant to Executive Order 13045.

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#### 4.2.2 Alternative 2

# 8 Population

- 9 As described for Alternative 1, implementation of the proposed action under Alternative 2 would
- 10 have no significant impact on local population either at the local or regional level.

# 11 Housing

- 12 As described for Alternative 1, implementation of the proposed action under Alternative 2 would
- have no significant impact to the housing inventory either at the local or regional level.

# 14 Economy

- 15 Implementation of Alternative 2 would result in short-term and positive economic impacts to the
- local community, but not to the extent described for Alternative 1 because under this alternative,
- only the Mission Planning Center conference facilities would be constructed and operated. In
- this case, there would be approximately \$33 million in construction costs expended for the
- building the Mission Planning Center, \$59 million less than for Alternative 1. Based on the size
- and industries represented in the Washington-Baltimore CMSA, it is anticipated that construction
- 21 services would be performed by local contractors and the Air Force would use local labor to the
- extent feasible. The construction impacts and related economic impact due to spending would be
- 23 positive in nature, but significantly less in magnitude than described for Alternative 1. This
- proposed construction spending would also result in secondary indirect and induced economic
- benefits to the local community. However, the benefits would be significantly less under
- 26 Alternative 2 than under Alternative 1.

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The long-term benefits to the local community under Alternative 2 would also be positive. The proposed Mission Planning Center could accommodate up to 525 attendees (265 in the main auditorium and the remainder in the other conference rooms in the facility), but under Alternative 2, no additional lodging or dining facilities are proposed. Furthermore, existing facilities are not available to lodge all of these meeting attendees. Since existing lodging facilities at Andrews AFB would be unable to accommodate more than about 50 meeting attendees, many individuals would travel off base and use dining and lodging facilities available within the local community or the region. Although the economic benefit would not be contained completely within Prince George's County, it is assumed that the majority of the economic benefit would be experienced within the Washington-Baltimore CMSA.

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It is estimated that the maximum attendance at the Mission Planning Center would be about 525 individuals, with (350) out-of-towners and 175 local attendees, who would travel home in the evening. Under Alternative 2, it is estimated that about 300 of the out-of-town meeting attendees would require lodging in the area surrounding Andrews AFB. Although difficult to quantify

- 1 given the frequency and average attendance at meetings, this would be a significant and positive
- 2 net economic benefit to the local community given current per diem rates.

# 3 Employment and Income

- 4 Both the short-term construction and long-term operational employment figures under
- 5 Alternative 2 will be less than those described under Alternative 1. The short-term construction
- 6 labor is assumed to be a portion of the \$33 million proposed for the Mission Planning Center.
- 7 This is approximately one-third of the construction costs under Alternative 1.

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- 9 Long-term operational employee requirements (estimated at approximately 60 individuals)
- would only be available for operation of the Mission Planning Center. With half of these being
- 11 military personnel, it is estimated that only 30 positions would be created for individuals in the
- local community. While this level of new employment would have a positive economic benefit
- for the local community, it would be significantly less than under Alternative 1.

# Taxes and Revenue

- 15 Similar to Alternative 1, there would be a moderate net positive tax impact under Alternative 2
- due to potential spending by meeting attendees for meals and lodging in the local area, in
- 17 addition to a limited increase in disposable income associated with the hiring of full-time staff
- 18 for the proposed Mission Planning Center.

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- 20 Expenditures by attendees would include meals, lodging and incidentals, although specific
- 21 numbers are difficult to quantify with any accuracy. Assuming 525 total attendees, with up to
- 22 300 staying in local hotels and the majority dining in the general Washington-Baltimore CMSA,
- there would be considerable spending in the local community. Presently, approximately 82% of
- 24 the current revenue from the county is derived from taxes, and additional revenue from hotel
- 25 taxes would increase that figure.

## 26 Environmental Justice

- 27 The environmental justice implications under Alternative 2 would be identical to those described
- 28 under Alternative 1.

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#### 4.2.3 No Action

- 31 Under the No Action Alternative, there would be no changes to current socioeconomic
- 32 conditions at Andrews AFB or in the surrounding area. As a result, there would be no
- 33 socioeconomic impacts associated with implementation of this alternative.

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# 4.3 Transportation

- 36 Implementation of the proposed action would result in an increase in the number of trips to and
- 37 from Andrews AFB, but would likely not result in an increase in the number of individuals
- 38 permanently assigned to the base. Based on available traffic data, the LOS on Andrews AFB
- 39 roadways is not expected to decrease, although there would be a slight increase in traffic under
- 40 either Alternatives 1 or 2. While off-base roadway impacts cannot be determined at this time
- due to the lack of information available to distribute the trips to the off-base roadway network, it

can be assumed that the majority of the individuals entering and exiting the base would utilize I-95/495. It is also assumed that I-95/495 would have available capacity to accommodate the trips associated with the implementation of either Alternatives 1 or 2.

Preparation of this transportation analysis was developed based upon a worst-case scenario, which would be unlikely to occur on the base, but is necessary for the determination of transportation impacts. Several assumptions were used during the preparation of this analysis, including:

• Maximum occupancy for meeting at the NCR Readiness Complex is 750 people (500 fly in and spend night at hotel, while an additional 250 drive in from surrounding local area).

• Employee 20% - 20% - 60% breakdown for NCR Readiness Complex, dining (collocated club), and lodging. Of the maximum employees (200), 40 would be assigned to NCR Readiness Complex, 40 to dining, and 120 to for lodging.

• Employee military to civilian ratio is 50:50. Military personnel live on-base and civilians live off-base.

• Military employees are included in existing traffic impacts and do not signify new onbase impacts resulting from proposed activities.

• On-base existing housing can accommodate 50 out-of-town guests.

## 4.3.1 Alternative 1

Although implementation of Alternative 1 would involve the construction of additional facilities resulting in the increased potential for visitors to Andrews AFB, Alternative 1 would be expected to result in fewer total vehicle trips than Alternative 2. This would occur primarily due to the collocation of facilities (i.e., housing, dining, and recreation services) and the decreased number of vehicle trips, which is characteristic of multi-use facilities.

The implementation of Alternative 1 would generate a total of approximately 1,000 vehicle trips for attendees (one trip for hotel guests and two trips for day visitors) and an additional 200 trips for individuals working at the proposed facilities. Even though some of the Complex employees may now be working on base, for conservativeness, the analysis assumes no trip reductions for these employees. Furthermore, no vehicular trip reduction factors for other modes of transportation were assumed. The primary route to access the proposed facilities would be through the Main Gate, to Perimeter Road, to Menoher Drive. According to the *Andrews Air Force Base Comprehensive Transportation Study*, both Perimeter Road and Menoher Drive are operating at an acceptable LOS of C or better. The proposed increase of 1,200 trips associated with the implementation of Alternative 1 would not be expected to result in changes to the LOS of these roadways. Each would continue to operate at an acceptable LOS.

The adoption of the proposed action would result in the closing of California Avenue to through traffic between Arkansas Road and Menoher Drive, thereby resulting in a redistribution of

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approximately 1,455 trips (average daily weekday traffic) to surrounding roadways (Gannett Fleming 2004). Although the closing of California Avenue would result in trip redistribution, specific detail as to the roadways utilized for these trips is not possible. However, this redistribution of traffic would be entirely within Andrews AFB and would not be expected to significantly impact the LOS of any of the surrounding roadways outside the Base.

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#### 4.3.2 Alternative 2

As indicated previously, the implementation of Alternative 2 would not result in the collocation of facilities, but would only result in the construction of the Mission Planning Center. Alternative 2 would generate a total of 700 trips by individuals attending training/meetings at Andrews AFB, which would account for a 60% decrease in trips from Alternative 1. This increase primarily would result from the need for these attendees to go off base for food and lodging because of the lack of restaurant and lodging facilities on base. No vehicular trip reduction factors for other modes of transportation were assumed. Trips would be assigned to the same route as identified for Alternative 1. The proposed 700 trips associated with the implementation of Alternative 2 would not be expected to result in a change in the LOS of any roadways. Each roadway would continue to operate at an acceptable LOS. Therefore, there would be no significant impacts to transportation with implementation of Alternative 2.

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#### 4.3.3 No Action

Under the No Action alternative, there would be no changes to vehicular transportation on base or in the surrounding area. As a result, there would be no impacts to transportation associated with this alternative.

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#### 4.4 Infrastructure/Utilities

## 4.4.1 Alternative 1

# **Wastewater Collection and Disposal**

- The sanitary sewer system must provide adequate collection and treatment facilities to improve the quality of wastewater. The system has adequate capacity if it can safely handle all existing
- 30 and future demands. The upgrades described in the General Plan (Design Lift Station Upgrade,
- 31 Repair of Wastewater Lift Stations, and Repair and Replacement of Sewage Lines Basewide
- 32 Phase I-IV) will allow Andrews AFB to satisfy future wastewater needs. Additionally, Andrews
- 33 AFB is currently in the process of privatizing wastewater collection and disposal, which should
- 34 foster further system improvements.

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- 36 The average wastewater flow at Andrews AFB is 1.1 MGD (O'Brien and Gere, 2001). On
- average, an employee or visitor demands 20-35 gallons/day of water usage (toilets, sink faucets,
- showers). The assumption of 200 staff for the facilities, a maximum lodging capacity of 500, and 175 daytime visitors would increase current usage by approximately 30,600 gallons per day,
- 40 or nearly 3%. The increased wastewater generation would increase wastewater treatment at the
- West Branch wastewater treatment plant by less than 2%. This would not significantly impact
- West Branch's ability to treat wastewater throughout the region.

# **Potable Water Supply**

The potable water supply system must provide adequate supply and distribution to meet existing and future demands. The system has adequate capacity if it can satisfy the duration, flow rate and pressure requirements of industrial and domestic consumption and fire protection. Given the current capacity of the system, it is not anticipated that Alternative 1 or 2 would impact the potable water supply.

Currently, the required storage capacity at Andrews AFB is 825,000 gallons of potable water, given the average daily demand of 1.65 MGD. The Potomac Water Filtration Plant has a capacity of 285 MGD. The addition of 825 people (less than 5% increase of Andrews AFB daily population) would increase potable water supply needs by about 67,000 gallons per day. The increased demand would be less than 2% of the capacity of the Potomac Water Filtration Plant and would therefore not significantly impact the plant's ability to provide Andrews AFB with potable water.

# Solid Waste Management

Andrews AFB currently disposes of solid waste using a private contractor. Waste is landfilled in Prince George's County at the Brown Station Road Sanitary Landfill.

Table 4-1 shows estimates of additional solid waste to be generated and managed upon operation of the NCR Readiness Complex. This total was developed on the basis of the EPA 2001 solid waste generation rate for the United States (4.5 pounds per person per day) (EPA 2002). The construction of the NCR Readiness Complex would increase solid waste generated at Andrews AFB by an estimated 570 tons per year. Using its extensive recycling program, Andrews AFB intends to achieve the 2005 DoD Measure of Merit (MoM) by diverting at least 40% of this nonhazardous solid waste from sanitary landfills.

 Waste that is not recycled will be disposed in the Brown Station Road Sanitary Landfill in Prince George's County, which has a capacity of 16.5 million cubic yards. It is estimated that approximately 550,000 cubic yards is landfilled at this location per year. The Brown Station Road Sanitary Landfill has a sufficient ability to handle the additional waste generated by the construction of this facility.

Table 4-2 Future Solid Waste Generation Levels

		Estimated				
Generators	Estimated Number	Additional Solid Waste in tons/Year	Recycled Solid Waste			
Lodgers	500	410	164			
Employees	200	160	64			
Total additional waste <sup>1</sup>		570	228			
Additional waste is per person rather than facility-based (food waste/packaging, etc) because the 4.5 pounds is all-						

inclusive.

 Implementation of Alternative 1 will result in a significant quantity of construction and demolition (C&D) waste. The contractors responsible for demolition will also be responsible for disposal of all C&D debris at off-site locations. There are eight C&D waste disposal locations in

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1 Prince George County. Therefore, there would be ample capacity for the C&D debris anticipated

2 from Alternative 1.

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#### 4.4.2 Alternative 2

#### 5 Sanitary Sewer System

- 6 Construction of the Mission Planning Center would result in approximately 585 daily visitors
- 7 and employees to Andrews AFB. The increased wastewater generation is estimated at 20,500
- 8 gallons/day, or about 2%. The increased wastewater generation would not significantly impact
- 9 Andrews AFB. Similar to Alternative 1, the increased wastewater generation would result in a
- negligible impact to West Branch wastewater treatment plant. 10

#### 11 **Potable Water Supply**

- 12 Similar to Alternative 1, Alternative 2 would result in a 4% increase to the daily population at
- 13 Andrews AFB. The increased demand would be less than 1% of the capacity of the Potomac
- 14 Water Filtration Plant and would therefore not significantly impact the plant's ability to provide
- 15 Andrews AFB with potable water.

# **Solid Waste Management**

- 17 The addition of 585 visitors and employees to Andrews AFB would increase waste generation by
- Recycling practices will be similar to those discussed in 18 approximately 480 tons/year.
- 19 Alternative 1. It is estimated that approximately 190 tons of solid waste will be recycled to
- 20 achieve the 2005 DoD MoM for nonhazardous solid waste. Impacts to C&D disposal would be
- 21 identical to those discussed in Alternative 1. Brown Station Road Sanitary Landfill has
- 22 sufficient capacity to accommodate the increase from the implementation of Alternative 2.

#### 4.4.3 No Action

24 Under the No Action alternative, there would be no impacts to infrastructure.

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#### 4.5 Topography, Geology, and Soils

- 27 The surface disturbances proposed for construction activities for the NCR Readiness Complex
- 28 construction would have only minor impacts on soils and no impacts on the topography and
- 29 geology of the area. Per 7 CFR Part 658, the Farmland Protection Policy Act, the proposed
- 30 project area was assessed using Form AD-1006 (Farmland Conversion Impact Rating). The
- 31 proposed project area was assessed with a rating of less than 160 points, indicating that it may be
- 32 "committed to urban development or water storage."

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#### 4.5.1 Alternative 1

- 35 Implementation of Alternative 1 would not significantly alter the topography or subsurface
- 36 geology at the base. The majority of the infrastructure associated with Alternative 1, including
- 37 sources of electricity, natural gas, potable water systems, and wastewater systems are currently in
- 38 place. Additionally, the proposed project area is in a developed area that has previously been
- 39 disturbed. Temporary impacts to surface soils would occur during construction activities. Best
- 40 management practices (BMPs) would be implemented to control erosion and sedimentation and

- 1 would include silt fence and stabilized construction entrances at various entry/exit locations.
- 2 Vegetated areas disturbed during the project would be hydroseeded following construction to
- 3 reestablish ground cover. In addition, the construction staging area would be provided with
- 4 adequate BMPs managed to ensure the proper level of control of vehicles and materials, and the
- 5 minimum disruption of topography.
- 6 An Erosion Control Plan would be prepared for the project in accordance with Maryland
- 7 Sediment Control Guidelines for State and Federal Projects (MDE 1990). No long-term impacts
- 8 to topography, geology or soils would be expected following construction of the Mission
- 9 Planning Center.

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#### 4.5.2 Alternative 2

- 12 Implementation of Alternative 2 would have impacts similar to those associated with
- implementation of Alternative 1.

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#### 15 **4.5.2 No Action**

16 The No Action alternative would have no impact on geology, soils, or topography.

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## 4.6 Water Resources

- 19 Implementation of any of the Proposed Action Alternative would have only minor, short-term
- 20 impacts on water resources at Andrews AFB.

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## 4.6.1 Alternative 1

#### 23 Groundwater

- 24 Implementation of Alternative 1 would not result in long-term significant impacts to
- 25 groundwater resources. Best management practices would be implemented so that none of the
- proposed demolition or construction would directly impact the underlying water table. Potential
- 27 spills of fuels or other chemicals could occur during construction activities; however; immediate
- 28 cleanup of spills would prevent any infiltration into area groundwater resources.

# 29 Surface Water

- 30 Demolition of existing buildings in the proposed project site, and construction of the NCR
- 31 Readiness Complex and associated facilities would not directly affect surface waters at Andrews
- 32 AFB. No natural surface waters are in the vicinity of the proposed project area.

## 33 Wetlands

- 34 The NCR Readiness Complex would not be constructed within or near any jurisdictional
- wetlands.

# 36 **Drainage**

- 37 Alternative 1 includes the demolition of approximately 3 acres of existing buildings and the
- 38 construction of approximately 8 acres of impervious area in the form of buildings and parking
- 39 lots. The proposed project area currently has 3.75 acres of impervious area. Alternative 1 would

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- 1 increase the impervious area at the proposed project area by 5 acres, or 133%. As part of the
- 2 engineering design, a storm water management plan would be prepared to ensure adequate
- 3 collection and treatment of storm water from the developed area.
- 4 It is anticipated that areas of soil will be temporarily exposed in proximity to the drainage
- 5 channel northwest of the project area during demolition and construction. Routine sediment
- 6 control practices prescribed by the MDE in the Maryland Standards and Specifications for Soil
- 7 Erosion and Sediment Control (MDE 1994) would be implemented in these areas to prevent the
- 8 introduction of sediment into the drainage channel.
- 9 Since construction and demolition activities would require the disturbance of more than one acre,
- 10 a Notice of Intent (NOI) under the general Maryland stormwater discharge permit for
- 11 construction activities would be filed with MDE prior to construction.

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#### 4.6.2 Alternative 2

#### 14 Groundwater

- 15 Similar to Alternative 1, it is not anticipated that Alternative 2 would not have long-term or
- significant impacts to groundwater resources.

#### 17 Surface Water

18 Implementation of Alternative 2 would have impacts identical to that of Alternative 1.

#### 19 Wetlands

- 20 The proposed location of the Mission Planning Center is not within or near any jurisdictional
- 21 wetlands.

#### 22 **Drainage**

- 23 Implementation of Alternative 2 would include the demolition of approximately 3 acres of
- 24 existing buildings and the construction of approximately 4 acres of impervious area in the form
- of buildings and parking lots. The proposed project area currently has 3.75 acres of impervious
- area. Alternative 2 would increase the impervious area at the proposed project area by 1 acre, or
- 27 25%.
- 28 The environmental controls and best management practices described in Alternative 1 would be
- implemented in Alternative 2.

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#### 4.6.3 No Action

- 32 Under the No Action Alternative, there would be no changes to surface water, groundwater, or
- drainage (including the amount of impervious area or storm water management) at Andrews
- 34 AFB. In addition, no wetlands would be affected. As a result, there would be no water resources
- impacts associated with implementation of this alternative.

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# 4.7 Biological Resources

- 2 Implementation of Alternative 1 or 2 would not have significant impacts on the biological
- 3 resources at Andrews AFB.

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## 4.7.1 Alternative 1

# 6 **Vegetation**

- 7 Implementation of Alternative 1 would have no significant effects on vegetation at the base.
- 8 Vegetation on the site is limited primarily to maintained grassy areas with ornamental trees and
- 9 shrubs that are intermixed with developed areas. No forested areas will permanently be removed
- 10 as a result of this project. All maintained grassy areas disturbed during construction that are
- 11 outside of the building footprints will be seeded immediately following construction with
- 12 approved seed mixtures to facilitate revegetation. Based on the Presidential Memorandum of
- 13 April 26, 1994, titled "Environmentally and Economically Beneficial Practice on Federal
- Landscaped Grounds," landscaping will incorporate the use of regionally native plants to protect
- 15 local natural heritage, provide wildlife habitat, and reduce fertilizer, pesticide, and irrigation
- 16 costs.

#### 17 Wildlife

- 18 The majority of the proposed project area is currently maintained lawn and provides minimal
- 19 wildlife habitat. In the vicinity of the tree line along the drainage channel, some minimal but not
- 20 significant disturbance to resident wildlife may occur as a result of the temporary increase in
- 21 noise and human activity during construction. Mobile animals (e.g., migratory birds and
- squirrels) might relocate to nearby areas with similar habitat, while slow or sedentary animals
- 23 (e.g., amphibians, lizards, and small mammals) could be taken during construction activities.
- 24 Any impacts on wildlife as a result of the proposed action would not be significant.

# 25 Threatened and Endangered Species

- 26 The proposed project area is not inhabited by any known or documented threatened or
- 27 endangered species; therefore, implementation of the Alternative 1 would have no effect on
- threatened and endangered species or critical habitats.

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#### 30 **4.7.2** Alternative 2

#### 31 Vegetation

- 32 Similar to Alternative 1, the implementation of Alternative 2 would have no significant impacts
- 33 to vegetation at Andrews AFB.

## 34 Wildlife

- 35 Effects to wildlife resulting from the implementation of Alternative 2 would be identical to those
- associated with Alternative 1.

# Threatened and Endangered Species

- 2 Potential impacts to threatened or endangered species are identical to those for Alternative 1.
- 3 Therefore, implementation of the Alternative 2 would have no effect on threatened and
- 4 endangered species or critical habitats.

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#### 6 **4.7.3 No Action**

- 7 There would be no impacts to biological resources at Andrews AFB under the No Action
- 8 alternative, including threatened and endangered species.

## 4.8 Cultural Resources

#### 10 **4.8.1 Alternative 1**

- 11 As discussed in Section 3.14, one building and four archeological sites at Andrews AFB are
- 12 potentially eligible for listing in the NRHP. None of these NRHP-eligible resources are located
- 13 within or adjacent to the proposed project area. Alternative 1, therefore, will have no effect on
- these cultural resources currently listed in or eligible for listing in NRHP.
- 15 As previously mentioned, approximately 130,000 square feet of existing temporary lodging
- 16 facilities (TLFs) built during the Cold War would be demolished to accommodate construction
- 17 of the NCR Readiness Complex. An EA prepared in March 2004 addressing lodging
- 18 improvements at Andrews AFB evaluated the impact of demolishing these same TLFs. The
- 19 Maryland Historical Trust reviewed the *Lodging Improvements EA* and found that demolition of
- 20 the TLFs would have "no effect" on historic properties and that Federal and state historic
- 21 preservation requirements had been met (MDP 2004). Therefore, implementation of Alternative
- 22 1 will have no effect on properties listed in or eligible for listing in the NRHP and Andrews AFB
- has no further obligations under Section 106 of the NHPA

#### 24 **4.8.2** Alternative 2

- 25 Implementation of Alternative 2 would impact the same Cold-War era buildings as discussed
- 26 above for Alternative 1. Therefore, implementation of Alternative 2 would have no effect on
- 27 properties listed in or eligible for listing in the NHRP and Andrews AFB has no further
- obligations under Section 106 of the NHPA.

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#### 4.8.3 No Action

- 31 The No Action alternative would result in no change to historic or cultural resources, known and
- unknown, at Andrews AFB.

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# 4.9 Air Quality

- 35 To evaluate air quality impacts associated with the demolition of existing facilities and
- 36 construction and operation of a new NCR Readiness Complex, the proposed action was divided
- 37 into two parts: demolition/construction activities and long-term operations. Demolition and
- 38 construction activities will only occur during the first year of the project. The construction
- 39 activities considered in this evaluation include the operation of construction equipment and
- 40 vehicles, demolition of existing structures, site preparation, and paving and building painting

operations. Long-term operations will occur after construction has been completed, and would involve heating/cooling and privately owned vehicles use. Since construction activities and

- 3 long-term operations would not occur at the same time, these emissions were evaluated
- 4 separately. To determine impacts on Prince George's County and the entire National Capital
- 5 Interstate Air Quality Control region for purposes of the Conformity determination, the
- 6 emissions were totaled for each of these types of activities for the year in which they will occur.
- 7 For long-term operation, the maximum year of emission is evaluated for General Conformity
- 8 purposes.
- 9 Guidelines recently published by the El Dorado County (California) Air Pollution Control
- 10 District (Guide to Air Quality Assessment, February 2002) provide a reasonable and accepted
- method for analysis of construction emissions for projects similar to that which is proposed by
- 12 Andrews AFB; therefore, they are used in this assessment. Construction is assumed to take place
- 13 over one year for 250 workdays; each workday is assumed to be 8 hours long. Demolition
- activities are considered to be part of the construction phase of a project.

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While the number and type of equipment will vary depending upon the amount and type of work being completed, the operation of construction equipment have been detailed based on the data for each type of construction activities provided in RS Means *Building Construction Cost Data* 2005. Particulate emissions from demolition, site preparation activities and VOC emissions from painting and paving activities were estimated separately.

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Since emissions of VOCs and  $NO_x$  are below the *de minimis* standards established by the Conformity Rule both for a severe ozone nonattainment area for the 1-hour ozone standard and for a moderate nonattainment area for the 8-hour ozone standard, a Conformity Determination is not required.

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#### 4.9.1 Alternative 1

Total projected annual construction emissions for Alternatives 1 is presented in Table 4-3. The construction equipment activities, emission factors, and emission estimates are detailed in Appendix A.

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Table 4-3 Total Projected Annual Criteria Pollutant Emissions from Construction Activities from Mission Planning Center and Associated Facilities, Andrews AFB (Alternative 1)

	Emissions (TPY)				
Activity	NO <sub>x</sub>	VOC	CO	SO <sub>2</sub>	PM <sub>10</sub>
Equipment Operation	19	2.0	13	0	1.0
Demolition	0	0	0	0	7.6
Site preparation	0	0	0	0	0.89
Painting and paving	0	9.7	0	0	0
Total	19	12	13	0	9.5

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The long-term activities that are evaluated will only occur after construction is complete and the facilities are occupied. The activities considered are building natural gas use and motor vehicle operations (POV). Emissions from natural gas use for heating purposes were estimated using data from United States Department of Energy (USDOE), 2004, Office of Energy Efficiency and

Renewable Energy, 2004 Buildings Energy Databook, and applying natural gas emission factors from AP-42, 5th Edition, Section 1.4, Tables 1.4-1 and 1.4-2. Total projected long-term emissions for Alternative 1 are listed in Tables 4-4.

	Emissions (TPY)					
Activity	NO <sub>x</sub>	VOC	CO	SO <sub>2</sub>	PM <sub>10</sub>	
Natural Gas Use	0.32	0.02	0.14	0.002	0.026	
Motor Vehicles	7.2	9.1	119	0.17	0.20	
Total	7.6	9.2	119	0.17	0.22	

## 4.9.2 Alternative 2

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Total projected annual construction emissions for Alternative 2 are presented in Table 4-5. The construction equipment activities, emission factors, and emission estimates are detailed in Appendix A.

Table 4-5 Total Projected Annual Criteria Pollutant Emissions from Construction Activities Of Mission Planning Center, Andrews AFB (Alternative 2)

	Emissions (TPY)				
Activity	NO <sub>x</sub>	VOC	CO	SO <sub>2</sub>	PM <sub>10</sub>
Equipment Operation	4.7	0.51	3.3	0	0.25
Demolition	0	0	0	0	7.6
Site preparation	0	0	0	0	0.77
Painting and paving	0	3.1	0	0	0
Total	4.7	3.6	3.3	0	8.6

Total projected long-term emissions for Alternative 1 are listed in Tables 4-6.

Table 4-6 Long-Term Projected Annual Emissions from Mission Planning
Center and Associated Facilities Use, Andrews AFB, Alternative 2

	Emissions (TPY)					
Activity	NO <sub>x</sub>	VOC	CO	SO <sub>2</sub>	PM <sub>10</sub>	
Natural Gas Use	0.06	0.036	0.026	0.0004	0.005	
Motor Vehicles	5.2	6.6	86	0.12	0.14	
Total	5.3	6.6	86	0.12	0.15	

#### 4.9.2 No Action

Under the no action alternative, there would be no change to air quality at Andrews AFB.

## 4.10 Noise

Impacts from noise due to implementation of any of the alternatives would be limited to short-term, minimal increases in noise levels during construction activities. No long term or major changes to the noise environment would occur.

Chapter 4 June 2005

#### 4.10.1 Alternative 1

Implementation of Alternative 1 would not permanently alter the noise environment in and around Andrews AFB. The proposed project site is located approximately 1,000 feet east of the Malcolm Grow Medical Center, a sensitive noise receptor. If a maximum noise level of 89 dBA measured 50 feet from the source (e.g., a bulldozer) is assumed, the distance from the project area to the Malcolm Grow Medical Center would be sufficient to allow noise levels to naturally attenuate to levels within existing conditions at the installation.

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Alternative 1 would temporarily generate brief periods of noise due to the operation of vehicles and equipment involved in facility demolition, site clearing and grading, facility construction, and facility completion. These activities would take place only during the daytime and would be within background noise levels resulting from operation of military aircraft and urban traffic. Upon completion of the project, the noise exposure would return to existing levels, which are dominated by aircraft overflights. Therefore, no long-term or major impact to the noise environment would occur from implementing the Alternative 1.

#### 4.10.2 Alternative 2

Impacts to noise at Andrews AFB due to implementation of Alternative 2 would be very similar to those described in Alternative 1 although shorter in duration due to the smaller size of the facility. No long term or major impact to the noise environment would occur from implementing Alternative 2.

#### 4.10.3 No Action

The No Action alternative would not cause any changes to the noise environment on the base or in surrounding communities.

# 4.11 Hazardous Materials and Waste Management

No alternative would disturb, nor interfere with, any sites on the National Priority List (NPL) or under investigation or remediation as part of the Andrews AFB Environmental Restoration Program (ERP). The Proposed Action Alternative would not result in a release of a hazardous material.

#### 4.11.1 Alternative 1

Implementation of Alternative 1 would require minimal use of hazardous materials for construction activities associated with the NCR Readiness Complex. Hazardous materials would be used and wastes generated as part of the maintenance and fueling of equipment that are utilized during these activities. However, construction contractors would be required to comply with the Spill Prevention, Control, and Countermeasures (SPCC) Plan in effect at Andrews AFB in order to meet the regulatory requirement to deal with the potential hazardous waste issue. The existing procedures outlined in AFOSH would be followed for handling and storage of hazardous materials. Furthermore, contractors would be required by contract to remove any

- hazardous waste generated by fueling and maintenance activities, and to dispose of such waste at facilities they select in accordance with their own regulatory requirements.
- 3 Lead-based pain detection sampling and asbestos sampling would be completed prior to
- 4 demolition of the facilities. If identified, these materials would be managed in accordance with
- 5 the base's Lead-based Paint Management Plan and Asbestos Management Program Plan.
- 6 Demolition of substandard facilities containing lead-based paint and asbestos would decrease the
- 7 potential of exposure to lead-based pain and asbestos. The contractors would be required to
- 8 dispose of any construction waste at approved landfills not located on Andrews AFB. No
- 9 construction activities or disturbances of soil will take place on ERP sites. Therefore, there
- would be no significant impacts to human health or the environment by implementation of
- 11 Alternative 1.

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#### 4.11.2 Alternative 2

- 14 All hazardous materials and waste associated with implementation of Alternative 2 would be
- 15 handled in the manner described in Section 4.7.1. Similar to Alternative 1, implementation of
- Alternative 2 does not involve construction activities or disturbances of soil on or near ERP sites.

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#### 4.10.3 No Action

- 19 Under the No Action alternative, there would be no change to hazardous materials and wastes
- 20 management at Andrews AFB.

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# 4.12 Cumulative Impacts

- 23 The CEQ regulations for implementing NEPA define cumulative impacts as "the impact on the
- environment which results from the incremental impact of the action when added to other past,
- 25 present and reasonably foreseeable future actions regardless of what other agency (Federal or
- 26 non-Federal) or person undertakes such other actions" (40 CFR 1508.7).
- 27 The scope of the cumulative impacts would be limited to the proposed project site at Andrews
- 28 AFB. The project is expected to take place over a four-year period. During this same period,
- 29 Andrews AFB plans to construct a new TLF at the corner of Brookley Street and F Street, and a
- 30 new Fitness Center Both facilities would be in proximity to the site for the NCR Readiness
- 31 Complex. Depending on the timeframe for construction of the proposed TLF and the Fitness
- 32 Center, there is the potential for cumulative air quality impacts from construction activities. No
- 33 other potential cumulative impacts have been identified.

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- While there are a few minor effects that would be associated with the proposed action, the
- 36 implementation of the identified environmental controls (e.g., application of BMPs) would
- 37 reduce their level of impact and, thus, reduce any contribution those effects may have made to a
- 38 cumulative impact. The proposed NCR Readiness Complex would serve the need for a
- 39 Washington, D.C. location for the discreet exchange of classified information by meeting
- 40 attendees.

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# 4.13 Unavoidable Adverse Impacts

- 2 Unavoidable short-term adverse impacts associated with implementation of the proposed NCR
- 3 Readiness Complex would include: temporary disturbance to soils from erosion and
- 4 sedimentation, temporary increase in fugitive dust and air emissions during construction.
- 5 However, these short-term effects are considered minor and would be confined to the immediate
- area of construction. The environmental controls that would be implemented as part of the
- 7 proposed project (e.g., implementation of BMPs) would minimize these potential impacts.

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# 4.14 Relationship Between Short-Term Uses and Enhancement of Long-Term Productivity

- 11 The relationship between short-term uses and enhancement of long-term productivity from
- implementation of the proposed action is evaluated from the standpoint of short-term effects and
- long-term effects. Short-term effects would be those associated with the demolition operations
- and construction operations. In the long-term, the proposed NCR Readiness Complex represents
- an enhancement to national security by providing a location where the exchange of classified
- information can be exchanged in a secure government facility at Andrews AFB.

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# 4.15 Irreversible and Irretrievable Commitment of Resources

- 19 This EA identifies any irreversible and irretrievable commitments of resources that would be
- 20 involved in the proposed action if implemented. An irreversible effect results from the use or
- 21 destruction of resources (e.g., energy) that cannot be replaced within a reasonable time. An
- 22 irretrievable effect results from loss of resources (e.g., endangered species) that cannot be
- restored as a result of implementation of a proposed action.
- 24 The short-term irreversible commitments of resources that would occur when implementing the
- 25 proposed NCR Readiness Complex would include planning and engineering costs, building
- 26 materials and supplies and their cost, use of energy resources during construction, labor,
- 27 generation of fugitive dust emissions, and creation of temporary construction noise. During
- 28 operation of the NCR Readiness Complex, irreversible commitments of resources would include
- 29 energy resources in the form of natural gas and electricity. Irretrievable commitments of
- 30 resources are those resources that would be lost for the life of the system. No irretrievable
- 31 effects have been identified with the construction and operations of the proposed NCR Readiness
- 32 Complex.

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3 4

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## **Environmental Assessment**

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# Appendix A



# Table A-1 CONSTRUCTION ACTIVITIES NCR READINESS COMPLEX, ANDREWS AFB

	Acres	
Building Project	affected	total sq. ft.
NCR READINESS CENTER	11	355,709
DEMOLITION	3.0	130,000

Table A-2

# CONSTRUCTION EQUIPMENT EXHAUST EMISSIONS NCR READINESS COMPLEX, ANDREWS AFB (ALTERNATIVE 1)

		Equipment	Days	Emission Factors (lb/day)(2)					Er	nissions (lbs/y	/r)				
Activity	<b>Equipment List</b>	quantity	Used(1)	NOx	VOC	CO	SO <sub>2</sub> (3)	PM <sub>10</sub>			NOx	VOC	co	SO2	PM10
Demolition	Loader	2	88	11.80	1.35	9.27	n/a	0.64			2,077	238	1,632	0	113
Demontion	Haul Truck	2	88	33.55	3.60	22.67	n/a	1.78			5,905	634	3,990	0	313
Backhoe Excavation	Backhoe Loader	2	34	6.66	0.65	3.56	n/a	0.34			453	44	242	0	23
Backing Excavation	Haul Truck	2	34	33.55	3.60	22.67	n/a	1.78			2,281	245	1,542	0	121
	Scraper	2	32	35.39	3.64	21.58	n/a	1.85			2,265	233	1,381	0	118
Cut and fill	Bulldozer	2	32	37.45	3.66	20.03	n/a	1.93			2,397	234	1,282	0	124
	Water Truck	2	32	33.55	3.60	22.67	n/a	1.78			2,147	230	1,451	0	114
Trenching	Trencher	2	8	8.31	1.00	7.26	n/a	0.45			133	16	116	0	7
Trenching	Track loader	2	8	6.66	0.65	3.56	n/a	0.34			107	10	57	0	5
	Grader	2	32	16.42	1.76	11.09	n/a	0.87			1,051	113	710	0	56
Grading	Bulldozer	2	32	37.45	3.66	20.03	n/a	1.93			2,397	234	1,282	0	124
	Water Truck	2	32	33.55	3.60	22.67	n/a	1.78			2,147	230	1,451	0	114
Concrete Slab pouring	Cement Truck	2	73	33.55	3.60	22.67	n/a	1.78			4,898	526	3,310	0	260
Deutskie Essimment	Generator	2	250	8.31	1.00	7.26	n/a	0.45			4,155	500	3,630	0	225
Portable Equipment	Air Compressor	2	250	8.31	1.00	7.26	n/a	0.45			4,155	500	3,630	0	225
Paving	Paving Machine Roller	2	20	11.91	1.37	9.36	n/a	0.64			476	55	374	0	26
Architectural Coatings	Air Compressor	2	20	8.31	1.00	7.26	n/a	0.45			332	40	290	0	18
		Emissio	ons lbs/day	365	39	241	0.0	19	Annual Emis	ssions lbs/yr	37,376	4,082	26,369	0	1,985
		Emission	ns tons/day	0.18	0.019	0.12	0.00	0.010	Annual E TPY		19	2.0	13	0.0	1.0

#### Notes:

- (1) Equipment days used based on the information provided in 2005 RSMeans Building Construction Cost Data
- (2) Emission factors from El Dorado County APCD CEQA Guide, February 2002.
- (3) SO<sub>2</sub> emission factor not available

#### TABLE A-3

# ANNUAL SITE PREPARATION PARTICULATE EMISSIONS FROM CONSTRUCTION NCR READINESS COMPLEX, ANDREWS AFB

LOCATION	ACRES	ACTIVITY	BULLDOZING	PAN SCRAPING	PAN SCRAPING	EMISSIONS	
		DAYS	(LBS)	OIL REMOV(LBS	ETHMOVING (LBS)	LBS/YR	TPY
Alernative 1	11	250	1,500	175	110	1,785	0.9
Alernative 2	1.7	250	1,500	28	17.4	1,545	0.77

#### Notes:

Bulldozing dust emissions based on 8hr/activity day \* EF (EPA 1992)

Soil removal dust emissions based on VMT/acre \*acres\*EF (EPA 1992)

Earthmoving dust emissions based on soil removal miles \*3 (BEE)\*EF

EPA 1992 Fugitive Dust Background document (EPA-450/2-92-004) used as data reference.

Table A-4
ANNUAL VOC EMISSIONS FROM PAVING
NCR READINESS COMPLEX, ANDREWS AFB

1,611 11211 1255 66111 2211,111 12112 115 111 2								
Operation	Acres	Emission	EMIS	SSIONS				
		(lbs/acre/day)	LBS/YR	TPY				
Paving	11.5	2.62	30	0.015				

#### **Notes:**

Emission factor from El Dorado County APCD- CEQA Guide, February, 2002 Emission Factor = 2.62 lbs per acre paving per day

Table A-5								
ANNUAL	VOC EMISSIONS FROM ARCHITECTURAL COATINGS							
	NCR READINESS COMPLEX, ANDREWS AFB							

Operation	Building	Emission	EMISSIONS		
	sq.ft.	(lbs/sq.ft.)	LBS/YR	TPY	
Alternative 1	355,709	1.63	19,443	9.7	
Alternative 2	36,484	1.63	6,227	3.1	

#### Notes:

Emission factor from El Dorado County APCD- CEQA Guid (1) Emission Factor = 1.63 lbs per sq.ft.

Table A-6 ANNUAL PARTICULATE EMISSIONS FROM DEMOLITION NCR READINESS COMPLEX, ANDREWS AFB								
Floor Space To be demolished	(SQ FT)	130,000						
Emission from Structure removal	(LBS)	66						
Emissions from Debris removal	(LBS)	1,222						
Emissions from Vehicle Activity	(LBS)	13,839						
Total PM10 emissions	LBS/YR	15,127						
Total I WITO CHRISSIONS	TPY	7.6						

## **Notes:**

- (1) PM emission from structure takedown based on sq. ft. \*EF
- (2) PM emission from debris removal based on sq. ft. \*EF
- (3) PM emission from on-site vehicle activity based on sq. ft. \*EF
- (4) Pushing (bulldozing) PM emission put under site prep spreadsheet
- (5) Reference EPA-450/2-92-004 (Fugitive Dust document) (all EF's in EPA document converted to english units)

Table A-7 ANNUAL EMISSIONS FROM NEW SPACE NATURAL GAS USE NCR READINESS COMPLEX, ANDREWS AFB

Natural Gas Consumption (ccf)	
Mission Planning	1,313,424
Lodging	4,459,600
Collocated Club	765,000
Fitness Center	375,000

Titliess Center	373,000												
	Emission Factors (lb/10 <sup>6</sup> ft <sup>3</sup> nat	Planning Center		0		odging Collocated Cacility Club		Fitness Center		Total Emissions Alternative 1		Total Emissions Alternative 2	
Criteria Pollutants <sup>1</sup>		lbs/yr	TPY	lbs/yr	TPY	lbs/yr	TPY	lbs/yr	TPY	lbs/yr	TPY	lbs/yr	TPY
$NO_x$	94	123	0.06	419	0.21	72	0.04	35	0.018	650	0.32	123	0.06
VOC	5.5	7.2	0.00	25	0.01	4.2	0.00	2.1	0.0010	38	0.02	7.2	0.0036
СО	40	53	0.03	178	0.09	31	0.02	15	0.008	277	0.14	53	0.026
$SO_2$	0.60	0.79	0.00039	2.7	0.0013	0.46	0.0002	0.23	0.0001	4.1	0.00	0.79	0.0004
PM <sub>2.5</sub>	7.6	10	0.0050	34	0.017	5.8	0.0029	2.9	0.0014	53	0.03	10	0.005
$PM_{10}$	7.6	10	0.0050	34	0.017	5.8	0.0029	2.9	0.0014	53	0.03	10	0.005
PM	7.6	10	0.0050	34	0.017	5.8	0.0029	2.9	0.0014	53	0.03	10	0.005

### Key:

ccf = 100 cubic feet

#### **Notes:**

- 1. Natural gas consumption calculated based on natural gas consumption annual intensities obtained from USDOE 2004 Buildings Energy Databook
- 2. Emission factors for natural gas from AP-42, 5th Edition, Section 1.4, Tables 1.4-1 and 1.4-2.

Table A-8 EMISSION FACTORS FOR PRIVATELY OWNED VEHICLES NCR READINESS COMPLEX, ANDREWS AFB										
	EPA Emission Factor (g/mile)									
Fleet Year	Type of Vehicle	Category	NOx	VOC	CO	PM	SO2			
2004	Cars	LDGV	1.006	1.285	16.5	0.0263	0.0275			
Source: Mobile 6.2, Using default	Pickups under 6000 lbs	LDGT1,2	1.277	1.492	20.72	0.0275	0.0351			
parameters for Andrews AFB, Prince George County, Maryland	Trucks under 8500 lbs, over 6000 lbs	LDGT3,4	1.69	2.423	28.19	0.0291	0.0459			

	Table A-9 PROJECTED CRITERIA AIR POLLUTANT EMISSIONS FROM PRIVATELY OWNED VEHICLES NCR READINESS COMPLEX, ANDREWS AFB (ALTERNATIVE 1)												
	Daily Daily Travel - Per Vehicle Travel Annual  EPA Vehicles On-Base Off-Base Total Days Travel Annual Emissions (lb/yr)												
Group	Vehicle Type	Category	(/day)	(VMT)	(VMT)	(VMT)	(days/yr)	(VMT/yr)	NOx	VOC	CO	PM	SO2
POV	Cars (60%)	LDGV	690	10	10	20	247	3,408,600	7,560	9,656	123,990	198	207
Commute	Pickups under 6000 lbs (30%)	LDGT1,2	345	10	10	20	247	1,704,300	4,798	5,606	77,851	103	132
Emissions	Trucks under 8500 lbs, over 6000 lbs (10%)	LDGT3,4	115	10	10	20	247	568,100	2,117	3,035	35,306	36.4	57
Emissions	Total	=	1,150	-	-	-	-	-	14,474	18,297	237,147	337	396
	total emissions (tons/yr) 7.2 9.1 119 0.169 0.198								0.198				

	Table A-10												
	PROJECTED CRITERIA AIR POLLUTANT EMISSIONS FROM PRIVATELY OWNED VEHICLES												
	NCR READINESS COMPLEX, ANDREWS AFB (ALTERNATIVE 2)												
	Daily Daily Travel - Per Vehicle  EPA Vehicles On-Base Off-Base Total Days Travel Annual Emissions (lb/yr)												
Group	Vehicle Type	Category	(/day)	(VMT)	(VMT)	(VMT)	(days/yr)	(VMT/yr)	NOx	VOC	CO	PM	SO2
	Cars (60%)	LDGV	498	10	10	20	247	2,460,120	5,456	6,969	89,488	143	149
POV	Pickups under 6000 lbs (30%)	LDGT1,2	249	10	10	20	247	1,230,060	3,463	4,046	56,188	75	95
Commute Emissions	Trucks under 8500 lbs, over 6000 lbs (10%)	LDGT3,4	83	10	10	20	247	410,020	1,528	2,190	25,482	26.3	41
	Total	=	830	-	-	1	-	-	10,447	13,205	171,158	244	286
	total emissions (tons/yr) 5.2 6.6 86 0.122 0.143												

# Appendix B





Robert L. Ehrlich, Jr. Governor Michael S. Steele Lt. Governor Audrey E. Scott Secretary Florence E. Burian Deputy Secretary

June 3, 2005

Ms. Dawn S. Roderique Project Manager Ecology and Environment, Inc Rosslyn Center 1700 North Moore Street Suite 1610 Arlington, VA 22209

## STATE CLEARINGHOUSE RECOMMENDATION

State Application Identifier: MD20050504-0339

Applicant: Ecology and Environment, Inc

Project Description: Environmental Assessment: National Capital Region Readiness Complex at Andrews Air

Force Base: consider 3 alternatives: demolish buildings; close a road

Project Location: County of Prince George's

Approving Authority: U.S. Department of Defense

Recommendation: Consistent Contingent Upon Certain Actions

#### Dear Ms. Roderique:

In accordance with Presidential Executive Order 12372 and Code of Maryland Regulation 14.24.04, the State Clearinghouse has coordinated the intergovernmental review of the referenced project. This letter constitutes the State process review and recommendation based upon comments received to date. This recommendation is valid for a period of three years from the date of this letter.

Review comments were requested from the Maryland Department(s) of <u>Transportation</u>, the <u>Environment</u>, <u>Natural Resources</u>, <u>Housing and Community Development</u>, <u>including the Maryland Historical Trust</u>, <u>Prince George's County</u>, <u>and the Maryland Department of Planning</u>. As of this date, the Maryland Department of the Environment, and Prince George's County have not submitted comments. **This recommendation is contingent upon the applicant considering and addressing any problems or conditions that may be identified by their review. Any comments received will be forwarded.** 

The Maryland Department(s) of Housing and Community Development, including the Maryland Historical Trust (the Trust), Natural Resources, Transportation, and the Maryland Department of Planning found this project to be consistent with their plans, programs, and objectives.

The Trust has determined that the project will have "no effect" on historic properties.

Ms. Dawn S. Roderique June 3, 2005 Page 2

Any statement of consideration given to the comments should be submitted to the approving authority, with a copy to the State Clearinghouse. The State Application Identifier Number <u>must</u> be placed on any correspondence pertaining to this project. The State Clearinghouse must be kept informed if the approving authority cannot accommodate the recommendation.

Please remember, you must comply with all applicable state and local laws and regulations. If you need assistance or have questions, contact the State Clearinghouse staff person noted above at 410-767-4490 or through e-mail at brosenbush@mdp.state.md.us. Also please complete the attached form and return it to the State Clearinghouse as soon as the status of the project is known. Any substitutions of this form <u>must</u> include the State Application Identifier Number. This will ensure that our files are complete.

Thank you for your cooperation with the MIRC process.

Sincerely,

Linda C. Janey, J.D., Director Maryland State Clearinghouse

for Intergovernmental Assistance

LCJ:BR
Enclosure(s)
cc: Beverly Warfield - PGEO
Ronald Spalding - MDOT
Joane Mueller - MDE

Ray Dintaman - DNR Beth Cole - DHCD/MHT

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Robert L. Ehrlich, Jr. Governor Michael S. Steele Lt. Governor Andrey E. Scott Secretary Florence E. Burian Deputy Secretary

### PROJECT STATUS FORM

		m and return it to the ot approved by the ap		upon receipt of notification	on that the project
	Maryland State CI Maryland Departme 301 West Preston S Room 1104 Baltimore, MD 212	ent of Planning Street		ATE: (Please fill in the date fo	rm completed)
FROM:			P	HONE: (Area Code & Phone n	<del></del> ,
	(Name of person con	pleting this form.)		(Area Code & Phone n	umber)
	State Application Project Descriptio		ental Assessment: Nat	ional Capital Region Rea atives: demolish buildings;	
		PRO	JECT APPROVA		
This pro	oject/plan was:	Approved	☐Approved wit	n Modification Dis	sapproved
Name o	f Approving Aut	hority:		Date Ap	pproved:
		FUN	DING APPROVA		
The fun	ding (if applicab	le) has been approve	ed for the period of:		· · · · · · · · · · · · · · · · · · ·
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